

## Hardware Replacement Eligible Parts

Juniper Networks maintenance and support services offerings for its hardware products do not provide for repair or replacement of certain parts that aren't considered Field-Replaceable Units (FRU). Generally, cables, power cords, rack-mounting kits and similar supplies and accessories are excluded. Some pluggable optics are also excluded.

This file provides a list of parts that are eligible for repair or replacement, excluding those which have reached the end of support date.

This list is for reference only, it may not include all the part numbers that are replaceable. Please check with Juniper Sales or Customer Care to confirm service availability.

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## CS Spares - Supported Material Report

Data current as of 3/15/2025

| Part Number       | Over Length Part Number | Part Number Description  |
|-------------------|-------------------------|--|
| 2WFXO-RTM         | 2WFXO-RTM               | CTP2000 2WFXO rear transition module   |
| 2WFXS-RTM         | 2WFXS-RTM               | CTP2000 2WFXS rear transition module   |
| 4WEM-RTM          | 4WEM-RTM                | CTP2000 4WEM rear transition module  |
| ACX1000-DC        | ACX1000-DC              | ACX1000 Universal Access Router, DC Version, 1RU, SyncE/1588v2, Temperature hardened, Passively cooled, 8xT1/E1, 8xGE RJ45, 4xGE SFP |
| ACX1100-AC        | ACX1100-AC              | ACX1100 Universal Access Router, AC Version, 1RU, SyncE/1588v2, Temperature hardened, Passively cooled, 8xGE RJ45, 4xGE Combo ( SFP  |
| ACX1100-DC        | ACX1100-DC              | ACX1100 Universal Access Router, DC Version, 1RU, SyncE/1588v2, Temperature hardened, Passively cooled, 8xGE RJ45, 4xGE Combo ( SFP  |
| ACX2100-AC        | ACX2100-AC              | ACX2100 Universal Access Router, AC version, 1RU, SyncE/1588, Temperature hardened, Passively cooled, 16XT1/E1, 2XGE SFP+, 2XGE SFP, |
| ACX2100-AC-BASE   | ACX2100-AC-BASE         | ACX2100 AC Version, Base Bundle - without 10G ports, 1588 BC, IPSec/NAT and L3VPN, Seamless MPLS                                     |
| ACX2100-DC        | ACX2100-DC              | ACX2100 Universal Access Router, DC version, 1RU, SyncE/1588, Temperature hardened, Passively cooled, 16XT1/E1, 2XGE SFP+, 2XGE SFP, |
| ACX2100-DC-BASE   | ACX2100-DC-BASE         | ACX2100 DC Version, Base Bundle - without 10G ports, 1588 BC, IPSec/NAT and L3VPN, Seamless MPLS                                     |
| ACX2200-AC        | ACX2200-AC              | ACX2200 Universal Access Router, AC version, 1RU, SyncE/1588, Temperature hardened, Passively cooled, 2XGE SFP+, 2XGE SFP, 4XGE Comb |
| ACX2200-DC        | ACX2200-DC              | ACX2200 Universal Access Router, DC version, 1RU, SyncE/1588, Temperature hardened, Passively cooled, 2XGE SFP+, 2XGE SFP, 4XGE Comb |
| ACX4K-FANTRAY-M-S | FANTRAY-ACX4000-M-S     | ACX4000 Fan Tray   |
| ACX500-AC         | ACX500-AC               | ACX500 Indoor unit 2x1GE(SFP) + 4x1GE(Combo) with single AC PS, I RU, Temperature hardened, passive cooling, Rack mounting options(m |
| ACX500-DC         | ACX500-DC               | ACX500 Indoor unit 2x1GE(SFP) + 4x1GE(Combo) with single DC PS, I RU, Temperature hardened, passive cooling, Rack mounting options(m |
| ACX500-O-AC       | ACX500-O-AC             | ACX500 Outdoor unit 3x1GE(SFP) + 3x1GE(Cu) with single AC PS, 12x8x4 inches(HxWxD), IP65 complaint for outdoor installation, Pole/Wa |
| ACX500-O-DC       | ACX500-O-DC             | ACX500 Outdoor unit 3x1GE(SFP) + 3x1GE(Cu) with single DC PS, 12x8x4 inches(HxWxD), IP65 complaint for outdoor installation, Pole/Wa |
| ACX500-O-POE-AC   | ACX500-O-POE-AC         | ACX500 Outdoor unit 3x1GE(SFP) + 3x1GE(Cu) with single AC PS, 16x10x4 inches(HxWxD), IP65 complaint for outdoor installation, Pole/W |
| ACX500-O-POE-DC   | ACX500-O-POE-DC         | ACX500 Outdoor unit 3x1GE(SFP) + 3x1GE(Cu) with single DC PS, 16x10x4 inches(HxWxD), IP65 complaint for outdoor installation, Pole/W |
| ACX5048-AC        | ACX5048-AC              | ACX5048, 48 SFP+/SFP ports, 6 QSFP ports, redundant fans and AC power supplies; Feature Right to use must be ordered separately      |
| ACX5048-DC        | ACX5048-DC              | ACX5048, 48 SFP+/SFP ports, 6 QSFP ports, redundant fans and DC power supplies; Feature Right to use must be ordered separately      |

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| ACX5096-AC         | ACX5096-AC         | ACX5096, 96 SFP+/SFP ports, 8 QSFP ports, redundant fans and AC power supplies; Feature Right to use must be ordered separately      |
| ACX5096-DC         | ACX5096-DC         | ACX5096, 96 SFP+/SFP ports, 8 QSFP ports, redundant fans and DC power supplies; Feature Right to use must be ordered separately      |
| ACX5448-CHASSIS    | ACX5448-CHASSIS    | ACX5448 CHASSIS  |
| ACX5448-D-CHASSIS  | ACX5448-D-CHASSIS  | ACX5448 OPTICAL CHASSIS SPARE SKU  |
| ACX5448-D-FAN-AFI  | ACX5448-D-FAN-AFI  | ACX5448-D Back To Front Fan FRU  |
| ACX5448-D-FAN-AFO  | ACX5448-D-FAN-AFO  | ACX5448-D Front To Back Fan FRU  |
| ACX5448-FAN-AFI    | ACX5448-FAN-AFI    | ACX5448 Back to Front Fan FRU  |
| ACX5448-FAN-AFO    | ACX5448-FAN-AFO    | ACX5448 Front To Back Fan FRU  |
| ACX5448-M-CHAS-L   | ACX5448-M-CHAS-L   | ACX5448-M Chassis, Spare, Limited JUNOS  |
| ACX5448-M-CHASSIS  | ACX5448-M-CHASSIS  | ACX5488 MACSec SKU Chassis   |
| ACX6160-FAN-1RU    | ACX6160-FAN-1RU    | ACX6160 fan 1RU fan tray   |
| ACX6160-T-CHAS     | ACX6160-T-CHAS     | ACX6160-T chassis spare  |
| ACX7024-CHAS       | ACX7024-CHAS       | ACX7024, CHASSIS, 1RU high, 250mm deep; 24xSFP28 and 4xQSFP28-DD; Operating Range 40C to 65C   |
| ACX7024-CHAS-L     | ACX7024-CHAS-L     | ACX7024, CHASSIS, Limited Junos  |
| ACX7024X-CHAS      | ACX7024X-CHAS      | Spare Chassis SKU for ACX7024X, 64GB RAM & 8 Core CPU  |
| ACX7100-32C-CHAS-K | ACX7100-32C-CHAS-K | JNP7100 Chassis DevID, 32 QSFP28 / 4 QSFP56-DD multi-rate ports, Spares only   |
| ACX7100-48L-CHAS-K | ACX7100-48L-CHAS-K | JNP7100 Chassis DevID, 48 SFP56 / 6 QSFP56-DD multi-rate ports, Spares only  |
| ACX710DC           | ACX710DC           | ACX710 DC; 24 SFP+/SFP ports, 4 QSFP28 ports; 1RU; 320mm depth; -40C to 65C; DC Power Supply; L2 and IGP/IP functions (without MPLS) |
| ACX7300-16Y        | ACX7300-16Y        | ACX7300 16xSFP56 (16x50G/25G/10G/1G) (With MACsec) Line Card   |
| ACX7300-2CD4C      | ACX7300-2CD4C      | ACX7300 2xQSFP56-DD/ 2xQSP28-DD+ 4xQSFP28 (2x400G/ 2x200G+4x100G) (With MACsec) Line Card  |
| ACX7300-2K-AC      | ACX7300-2K-AC      | AC Power Supply , 2000W , Spare  |
| ACX7300-2K-AC-BB   | ACX7300-2K-AC-BB   | ACX7300 AC Power Supply Base Bundle , 2000W  |
| ACX7300-2K-DC      | ACX7300-2K-DC      | DC Power Supply , 2000W , Spare  |
| ACX7300-2K-DC-BB   | ACX7300-2K-DC-BB   | ACX7300 DC Power Supply Base Bundle , 2000W  |
| ACX7300-FAN-AO     | ACX7300-FAN-AO     | ACX7300 Fan , Spare  |

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| ACX7300-FAN-AO-BB  | ACX7300-FAN-AO-BB      | ACX7300 Fan Base Bundle  |
| ACX7300-RE         | ACX7300-RE             | ACX7300 Routing Engine, Intel X86 Base CPU, 64GB DDR4 RAM & 100GB SSD  |
| ACX7332-CHAS       | ACX7332-CHAS           | ACX7332 Chassis 3RU, 290mm Depth, 8xQSFP28+ 32xSFP28 , Operating Range -40C to 65C , Spare   |
| ACX7332-CHAS-BB    | ACX7332-CHAS-BB        | ACX7332 Base Bundle Chassis 3RU, 290mm Depth, 8xQSFP28+ 32xSFP28 , Operating Range -40C to 65C                                       |
| ACX7348-CHAS       | ACX7348-CHAS           | ACX7348 Chassis 3RU, 290mm Depth, 8xQSFP28+ 48xSFP28 , Operating Range -40C to 65C , Spare   |
| ACX7348-CHAS-BB    | ACX7348-CHAS-BB        | ACX7348 Base Bundle Chassis 3RU, 290mm Depth, 8xQSFP28+ 48xSFP28 , Operating Range -40C to 65C                                       |
| ACX7509-EMI        | ACX7509-EMI            | ACX7509 EMI Door with Air Filter and Cable Manager, Spare  |
| ACX7509-EMI-BB     | ACX7509-EMI-BB         | ACX7509 EMI Door with Air Filter and Cable Manager, Base   |
| ACX7509-FEB        | ACX7509-FEB            | ACX7509 Forwarding Engine, with 4.8T(Over Subscribed 6.2T) Forwarding with 2x Q2C, Spare   |
| ACX7509-FEB-BB     | ACX7509-FEB-BB         | ACX7509 Forwarding Engine, with 4.8T(Over Subscribed 6.2T) Forwarding with 2x Q2C, Base  |
| ACX7509-FLTR       | ACX7509-FLTR           | ACX7509 Air Filter, Spare  |
| ACX7509-RCB        | ACX7509-RCB            | ACX7509 Routing Engine, Intel X86 Base CPU, 64GB DDR4, 55W CPU, Spare  |
| ACX7509-RCB-BB     | ACX7509-RCB-BB         | ACX7509 Routing Engine, Intel X86 Base CPU, 64GB DDR4, 55W CPU, Base   |
| ACX7509-RCB-LT     | ACX7509-RCB-LT         | ACX7509 Routing Engine, Intel X86 Base CPU, 64GB DDR4, 55W CPU with Limited Encryption Version, Spare                                |
| ACX7509-RCB-LT-BB  | ACX7509-RCB-LT-BB      | ACX7509 Routing Engine, Intel X86 Base CPU, 64GB DDR4, 55W CPU with Limited Encryption Version ,Base                                 |
| ACX-MIC-16CHE1T1CE | ACX-MIC-16CHE1-T1-CE   | 16 Port Channelized T1, Channelized E1 (down to DS0) MIC, RJ48 Connector, ACX, Supported on Fortius-M only                           |
| ACX-MIC4OC31OC12CE | ACX-MIC-4COC3-1COC12CE | Multirate Circuit Emulation MIC, 4 Port Channelized OC3/STM1 (down to DS0) or 1 Port Channelized OC12/STM4 (down to DS0) CE MIC for  |
| ACX-MIC-6GE-CU-SFP | ACX-MIC-6GE-CU-SFP     | ACX4000 6xGE Combo MIC   |
| AP12-US            | AP12-US                | High Performance Wallplate WiFi 6 802.11ax Access Point with Bluetooth Low Energy. For US only                                       |
| AP12-WW            | AP12-WW                | High Performance Wallplate WiFi 6 802.11ax Access Point with Bluetooth Low Energy. Outside US Only                                   |
| AP21-US            | AP21-US                | High Performance Gigabit Wi-Fi Wave 2 Access Point (2x2:2) with Adaptive Bluetooth Low Energy Array for Advanced Location based serv |
| AP21-WW            | AP21-WW                | High Performance Gigabit Wi-Fi Wave 2 Access Point (2x2:2) with Adaptive Bluetooth Low Energy Array for Advanced Location based serv |
| AP24-US            | AP24-US                | High Performance Multigigabit WiFi 6E Access Point (6 stream) with Bluetooth Low Energy, with built-in Internal Antenna - US only; U |
| AP24-WW            | AP24-WW                | High Performance Multigigabit WiFi 6E Access Point (6 stream) with Bluetooth Low Energy, with built-in Internal Antenna - Outside US |
| AP32E-US           | AP32E-US               | Superior Performance Multigagabit WiFi 6 802.11ax Access Point (6 stream) with BLE, with External Antenna connectors. For US only    |

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| AP32E-WW      | AP32E-WW      | Superior Performance Multigigabit WiFi 6 802.11ax Access Point (6 stream) with BLE, with External Antenna connectors. For Worldwide  |
| AP32-US       | AP32-US       | Superior Performance Multigigabit WiFi 6 802.11ax Access Point (6 stream) with BLE, with built-in Internal Antenna. For US only      |
| AP32-WW       | AP32-WW       | Superior Performance Multigigabit WiFi 6 802.11ax Access Point (6 stream) with BLE, with built-in Internal Antenna. For Worldwide    |
| AP33-US       | AP33-US       | Superior Performance Multigigabit WiFi 6 802.11ax Access Point (6 stream) with Adaptive Bluetooth Low Energy Array for Advanced Loca |
| AP33-WW       | AP33-WW       | Superior Performance Multigigabit WiFi 6 802.11ax Access Point (6 stream) with Adaptive Bluetooth Low Energy Array for Advanced Loca |
| AP34-US       | AP34-US       | Superior Performance MultiGigabit WiFi 6E Access Point (2x2:2) with BLE, with built-in Internal Antenna - US only                    |
| AP34-WW       | AP34-WW       | Superior Performance MultiGigabit WiFi 6E Access Point (2x2:2) with BLE, with built-in Internal Antenna - outside US only            |
| AP41E-IL      | AP41E-IL      | Premium Performance Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP41E-US      | AP41E-US      | Premium Performance Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP41E-WW      | AP41E-WW      | Premium Performance Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP41-IL       | AP41-IL       | Premium Performance Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP41-US       | AP41-US       | Premium Performance Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP41-WW       | AP41-WW       | Premium Performance Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP43E-FIPS-US | AP43E-FIPS-US | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP43E-IL      | AP43E-IL      | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP43E-US      | AP43E-US      | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP43E-WW      | AP43E-WW      | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP43-FIPS-US  | AP43-FIPS-US  | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP43-IL       | AP43-IL       | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP43-US       | AP43-US       | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP43-WW       | AP43-WW       | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP45E-US      | AP45E-US      | Premium Performance MultiGigabit WiFi 6E Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP45E-WW      | AP45E-WW      | Premium Performance MultiGigabit WiFi 6E Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP45-US       | AP45-US       | Premium Performance MultiGigabit WiFi 6E Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |

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| AP45-WW      | AP45-WW      | Premium Performance MultiGigabit WiFi 6E Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location based s |
| AP47D-US     | AP47D-US     | Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with Directional |
| AP47E-US     | AP47E-US     | Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with External An |
| AP47-US      | AP47-US      | Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in In |
| AP61E-IL     | AP61E-IL     | Premium Performance Outdoor Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Locatio  |
| AP61E-US     | AP61E-US     | Premium Performance Outdoor Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Locatio  |
| AP61E-WW     | AP61E-WW     | Premium Performance Outdoor Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Locatio  |
| AP61-IL      | AP61-IL      | Premium Performance Outdoor Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location |
| AP61-US      | AP61-US      | Premium Performance Outdoor Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location |
| AP61-WW      | AP61-WW      | Premium Performance Outdoor Gigabit Wi-Fi Wave 2 Access Point (4x4:4) with Adaptive Bluetooth Low Energy Array for Advanced Location |
| AP63E-US     | AP63E-US     | Premium Performance Outdoor MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location b |
| AP63E-WW     | AP63E-WW     | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP63-US      | AP63-US      | Premium Performance Outdoor MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location b |
| AP63-WW      | AP63-WW      | Premium Performance MultiGigabit WiFi 802.11ax Access Point with Adaptive Bluetooth Low Energy Array for Advanced Location based ser |
| AP64-US      | AP64-US      | High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - US |
| AP64-WW      | AP64-WW      | High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - Ou |
| AS-MSC-400GB | AS-MSC-400GB | Application Services - Modular Storage Card w/ 400 GB Capacity   |
| AS-MXC40-64G | AS-MXC40-64G | Application Services - Modular Processing Card with 64G for MX   |
| BT11-US      | BT11-US      | Adaptive Bluetooth Low Energy Array Access Point for Advanced Location based services  |
| BT11-WW      | BT11-WW      | Adaptive Bluetooth Low Energy Array Access Point for Advanced Location based services.   |
| BT7A07AA     | BT7A07AA     | 2D ROADM   |
| BT7A07BA-P03 | BT7A07BA-P03 | 4D ROADM ON A BLADE (PAYGO - 2 Degrees)  |
| CB2-PTX-BB   | CB2-PTX-BB   | PTX, Control Board-2, BaseBundle   |
| CB2-PTX-R    | CB2-PTX-R    | PTX, Control Board-2, Redundant  |

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| CB2-PTX-S          | CB2-PTX-S          | PTX, Control Board-2, Spare  |
| CBL-PW-C13-250L-US | CBL-PW-C13-250L-US | AC Power Cable - US (NEMA L6-15 13A/250V, 4.5m)  |
| CB-PTX-BB          | CB-PTX-BB          | PTX base bundle control board  |
| CB-PTX-R           | CB-PTX-R           | PTX redundant control board  |
| CB-PTX-S           | CB-PTX-S           | PTX spare control board  |
| CB-SFF-PTX-BB      | CB-SFF-PTX-BB      | PTX SFF Control Board moduleBase Bundle  |
| CB-SFF-PTX-R       | CB-SFF-PTX-R       | PTX SFF Control Board module Redundant   |
| CB-SFF-PTX-S       | CB-SFF-PTX-S       | PTX SFF Control Board module Spare   |
| CCG-PTX-BB         | CCG-PTX-BB         | PTX base bundle centralized clock generator  |
| CCG-PTX-R          | CCG-PTX-R          | PTX redundant centralized clock generator  |
| CCG-PTX-S          | CCG-PTX-S          | PTX spare centralized clock generator  |
| CFP-100GBASE-SR10  | CFP-100GBASE-SR10  | CFP, 100GE SR10, MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), MPO-24 connector               |
| CFP-100GBASE-ZR    | CFP-100GBASE-ZR    | CFP, 100GBASE-ZR, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                                       |
| CFP2-100GBASE-ER4  | CFP2-100GBASE-ER4  | CFP, 100GBASE-ER4, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                                      |
| CFP2-100GBASE-LR4  | CFP2-100GBASE-LR4  | CFP2, 100GBASE-LR4, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                                     |
| CFP2-100GBASE-SR10 | CFP2-100GBASE-SR10 | CFP2, 100GBASE-SR10, MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), MPO-24 connector           |
| CFP2-100G-ER4-D    | CFP2-100G-ER4-D    | CFP2, 100GBASE-ER and OTN Dual-Rate, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                    |
| CFP2-100G-LR4-D    | CFP2-100G-LR4-D    | CFP2, 100GBASE-LR4 and OTU-T 411-9D1F Dual-Rate, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector        |
| CFP2-100G-SR10-D3  | CFP2-100G-SR10-D3  | CFP2, 100GBASE-SR10 and OTN Dual-Rate, MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), MPO-24 c |
| CFP2-DCO-T-WDM-1   | CFP2-DCO-T-WDM-1   | CFP2 with Digital Electrical Interface, 100G Coherent Optics, QPSK Modulation, with SDFEC  |
| CFP2-DCO-T-WDM-HG  | CFP2-DCO-T-WDM-HG  | CFP2, Coherent 100GE (DP-QPSK with HGFEC support) and 200GE ( DP-8QAM and DP-16QAM), SMF 2000 km, Standard Temperature (0 through 70 |
| CFP-CLK-100G-LR4   | CFP-CLK-100G-LR4   | 100GBASE-LR4 CFP (2nd Generation) Pluggable Module with Enhanced External Clocking Compliant with IEEE 802.3ba                       |
| CFP-GEN2-CGE-ER4   | CFP-GEN2-CGE-ER4   | CFP 2nd Generation, 100GBASE-ER4, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                       |
| CHAS-ACX4000-S     | CHAS-ACX4000-S     | Converged Access Gateway Chassis Spare, 2 Open Slot, No Power Supplies, No Fantray   |
| CHAS-BP3-MX240-S   | CHAS-BP3-MX240-S   | MX240 with installed backplane, Spare  |

|                   |                   |   |
|-------------------|-------------------|---|
| CHAS-BP3-MX480-S  | CHAS-BP3-MX480-S  | MX480 with installed backplane, Spare                                     |
| CHAS-BP3-MX960-S  | CHAS-BP3-MX960-S  | MX960 with installed backplane, Spare                                     |
| CHAS-BP-MX2010-BB | CHAS-BP-MX2010-BB | 10 Slot MX2000 Chassis, Base Bundle                                       |
| CHAS-BP-MX2010-S  | CHAS-BP-MX2010-S  | 10 Slot MX2000 Chassis with Backplane installed, Spare                    |
| CHAS-BP-MX2020-BB | CHAS-BP-MX2020-BB | 20 Slot MX2000 Chassis, Base Bundle                                       |
| CHAS-BP-MX2020-S  | CHAS-BP-MX2020-S  | 20 Slot MX2000 Chassis with Backplane installed, Spare                    |
| CHAS-BP-MX240-S   | CHAS-BP-MX240-S   | MX240 with installed backplane, Spare                                     |
| CHAS-BP-MX480-S   | CHAS-BP-MX480-S   | MX480 with installed backplane, Spare                                     |
| CHAS-BP-MX960-S   | CHAS-BP-MX960-S   | MX960 with installed backplane, Spare                                     |
| CHAS-MP2-PTX5K-S  | CHAS-MP2-PTX5K-S  | PTX5000 Chassis Enhanced Mid-Plane  |
| CHAS-MP-PTX3000-S | CHAS-MP-PTX3000-S | PTX3K Chassis Spare   |
| CHAS-MX104-S      | CHAS-MX104-S      | MX104 Chassis Spare, Altius-MX104, MX series                              |
| CHAS-MX10-T-BB    | CHAS-MX10-T-BB    | MX10 spare chassis with SyncE timing support                              |
| CHAS-MX10-T-DOM-S | CHAS-MX10-T-DOM-S | MX10 spare chassis with SyncE timing support and Junos Domestic installed |
| CHAS-MX10-T-S     | CHAS-MX10-T-S     | MX10 Chassis Spare, Mid-Rangius   |
| CHAS-MX2008-BB    | CHAS-MX2008-BB    | 10 Slot MX2008 Chassis, Base  |
| CHAS-MX2008-S     | CHAS-MX2008-S     | 10 Slot MX2000 Chassis, Spare   |
| CHAS-MX40-T-BB    | CHAS-MX40-T-BB    | MX40 spare chassis with SyncE timing support                              |
| CHAS-MX40-T-DOM-S | CHAS-MX40-T-DOM-S | MX40 spare chassis with SyncE timing support and Junos Domestic installed |
| CHAS-MX40-T-S     | CHAS-MX40-T-S     | MX40 Chassis Spare, Mid-Rangius   |
| CHAS-MX5-T-BB     | CHAS-MX5-T-BB     | MX5 spare chassis with SyncE timing support                               |
| CHAS-MX5-T-DOM-S  | CHAS-MX5-T-DOM-S  | MX5 spare chassis with SyncE timing support and Junos Domestic installed  |
| CHAS-MX5-T-S      | CHAS-MX5-T-S      | MX5 Chassis Spare, Mid-Rangius  |
| CHAS-MX80-48T-S   | CHAS-MX80-48T-S   | MX80-48T Chassis, Spare, MX80   |
| CHAS-MX80-DOM-S   | CHAS-MX80-DOM-S   | MX80 Chassis, Spare (Domestic Junos)                                      |



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| CHAS-MX80-P-BB     | CHAS-MX80-P-BB     | MX80 spare chassis with SyncE and PTP timing support                                      |
| CHAS-MX80-P-DOM-S  | CHAS-MX80-P-DOM-S  | MX80 spare chassis with SyncE and PTP timing support and Junos Domestic installed         |
| CHAS-MX80-P-S      | CHAS-MX80-P-S      | MX80-P Chassis Spare, Timex-Precision   |
| CHAS-MX80-S        | CHAS-MX80-S        | MX80 Chassis, Spare, MX80   |
| CHAS-MX80-T-BB     | CHAS-MX80-T-BB     | MX80 spare chassis with SyncE timing support  |
| CHAS-MX80-T-DOM-S  | CHAS-MX80-T-DOM-S  | MX80 spare chassis with SyncE timing support and Junos Domestic installed                 |
| CHAS-MX80-T-S      | CHAS-MX80-T-S      | MX80 Chassis with 1588v2 Timing Support, Spare, Timex                                     |
| CRAFT-MX240-S      | CRAFT-MX240-S      | MX240 Craft Interface Panel, Spare  |
| CRAFT-MX480-S      | CRAFT-MX480-S      | MX480 Craft Interface Panel, Spare  |
| CRAFT-MX960-S      | CRAFT-MX960-S      | MX960 Craft Interface Panel, Spare  |
| CRAFT-PTX5000-BB   | CRAFT-PTX5000-BB   | PTX base bundle craft/front panel   |
| CRAFT-PTX5000-S    | CRAFT-PTX5000-S    | PTX spare craft/front panel   |
| CTP150-IM-SER      | CTP150-IM-SER      | CTP150 4-port Serial interface module   |
| CTP150-IM-SER-B    | CTP150-IM-SER-B    | CTP150 4-port Serial revB interface module  |
| CTP150-IM-SER-MS   | CTP150-IM-SER-MS   | CTP150 4-port Serial interface module with 2-port Multi-Service daughter cards installed. |
| CTP150-IM-SER-MS-B | CTP150-IM-SER-MS-B | CTP150 4-port Serial revB interface module with 2-port Multi-Service cards installed.     |
| CTP150-IM-T1E1     | CTP150-IM-T1E1     | CTP150 4-port T1E1 interface module   |
| CTP150-IM-T1E1-A   | CTP150-IM-T1E1-A   | CTP150 4-port T1E1 Revision A interface module  |
| CTP150-IM-T1E1-B   | CTP150-IM-T1E1-B   | CTP150 4-port T1E1 revB interface module  |
| CTP151-CHAS        | CTP151-CHAS        | CTP151 Chassis  |
| CTP2000-IM-2WFXO   | CTP2000-IM-2WFXO   | CTP2000 series 12-port 2WFXO Analog Interface Module                                      |
| CTP2000-IM-2WFXS   | CTP2000-IM-2WFXS   | CTP2000 series 24-port 2WFXS Analog Interface Module                                      |
| CTP2000-IM-2WFXS-B | CTP2000-IM-2WFXS-B | CTP2000 series 24-port 2WFXS Analog Interface Module rev B                                |
| CTP2000-IM-4WEM    | CTP2000-IM-4WEM    | CTP2000 series 8-port 4WE&M Analog Interface Module                                       |
| CTP2000-IM-8P      | CTP2000-IM-8P      | CTP 2000 series - EIA530/RS-232 8-Port Interface Module.                                  |

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| CTP2000-IM8P-B     | CTP2000-IM8P-B         | CTP 2000 8-port Series - EIA530/RS-232 8-Port revB Interface Module                                    |
| CTP2000-IM-8P-MS   | CTP2000-IM-8P-MS       | CTP2000 8-port interface module with serial RS-232, EIA-530, V.35, and Multi-Service analog voice      |
| CTP2000-IM8P-MS-B  | CTP2000-IM8P-MS-B      | CTP2000 8-port revB interface module with serial RS-232, EIA-530, V.35, and Multi-Service analog voice |
| CTP2000-IM-8P-T1E1 | CTP2000-IM-8P-T1E1     | CTP2000 Series -8-Port T1/E1 Interface Module  |
| CTP2000-IM8PT1E1-B | CTP2000-IM8PT1E1-B     | CTP2000 8-port Series T1/E1 revB Interface Module  |
| CTP2000-MEM-04-S   | CTP2000-MEM-04-S       | CTP2000 NVME for Gen4 CTP2K processor  |
| CTP2000-PRC-03-S   | CTP2000-PRC-03-S       | Spare CTP2000 Series -03 processor   |
| CTP2000-PRC-04-S   | CTP2000-PRC-04-S       | Spare CTP2000 Series -04 processor   |
| CTP2000-PWR-DC-R   | CTP2000-PWR-DC-R       | CTP2024/CTP2056 Dual Redundant DC Power Supply Option  |
| CTP2000-PWR-R      | CTP2000-PWR-R          | CTP2024 CTP2056 Dual Redundant Power Supply Option.  |
| CTP2008-BASE-ACFRU | CTP2008-CHASSIS-FRU    | CTP2008 AC Base Chassis, no Processor, no RTM, no CLK RTM, no Power Supply                             |
| CTP2008-BASE-DCFRU | CTP2008-CHASSIS-DC-FRU | CTP2008 DC Base Chassis, no Processor, no RTM, no CLK RTM, no Power Supply                             |
| CTP2024-BASE-ACFRU | CTP2024-CHASSIS-FRU    | CTP2024 AC Base Chassis, no Processor, no RTM, no CLK RTM, no Power Supply                             |
| CTP2024-BASE-DCFRU | CTP2024-CHASSIS-DC-FRU | CTP2024 DC Base Chassis, no Processor, no RTM, no CLK RTM, no Power Supply                             |
| CTP2024-FTRAY      | CTP2024-ASSY-FANTRAY   | Fantray for CTP2024 Chassis  |
| CTP2056-BASE-ACFRU | CTP2056-CHASSIS-FRU    | CTP2056 AC Base Chassis, no Processor, no RTM, no CLK RTM, no Power Supply                             |
| CTP2056-BASE-DCFRU | CTP2056-CHASSIS-DC-FRU | CTP2056 DC Base Chassis, no Processor, no RTM, no CLK RTM, no Power Supply                             |
| CTP2056-FTRAY      | CTP2056-ASSY-FANTRAY   | Fantray for CTP2056 Chassis  |
| CTP-CLK-MAIN       | CTP-CLK-MAIN           | CTP2000 main clock card  |
| CTP-CLK-SPOKE      | CTP-CLK-SPOKE          | CTP2000 spoke clock card   |
| CTP-FIBER-PMC      | CTP-FIBER-PMC          | Fiber PMC card for CTP2000 to support up to 2 SFP Modules  |
| CTP-FIBER-XMC-04   | CTP-FIBER-XMC-04       | Fiber interface module for CTP2000-PRC-04 to support up to 2 SFP Modules                               |
| CTP-SFP-1GE-LX     | CTP-SFP-1GE-LX         | Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module, CTP1000                         |
| CTP-SFP-1GE-SX     | CTP-SFP-1GE-SX         | Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module, CTP1000                         |
| CTP-SFP-1GE-T      | CTP-SFP-1GE-T          | Small Form Factor Pluggable 1000Base-T Gigabit Ethernet Module (uses Cat 5 cable)                      |

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| CTPVIEW-SVR-1     | CTPVIEW-SVR-1     | CTPView server hardware   |
| CXP-100GBASE-SR10 | CXP-100GBASE-SR10 | One 100GBASE-SR10 CXP pluggable module  |
| DPCE-R-20GE-2XGE  | DPCE-R-20GE-2XGE  | Coarse Queue Combo DPC with L2+L3 features, Centaur, MX960  |
| EX2200-48T-4G     | EX2200-48T-4G     | EX2200, 48-port 10/100/1000BaseT + 4Gbe Uplink ports  |
| EX2300-24MP       | EX2300-24MP       | EX2300 class multi-gig switch with 16 x 1G, 8 x 1G/2.5G copper ports, 30w PoE   |
| EX2300-24MP-TAA   | EX2300-24MP-TAA   | TAA version of EX2300 24 port multigigabit switch with up to 30W POE per port   |
| EX2300-24P        | EX2300-24P        | EX2300 24-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+ (optics sold separately)   |
| EX2300-24P-TAA    | EX2300-24P-TAA    | EX2300 TAA 24-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+ (optics sold separately)   |
| EX2300-24P-U      | EX2300-24P-U      | EX2300 24-port 10/100/1000BaseT PoE+ with internal AC PSU, 4 x 1/10G SFP/SFP+ (optics sold separately); Country of origin USA |
| EX2300-24T        | EX2300-24T        | EX2300 24-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+ (optics sold separately)  |
| EX2300-24T-DC     | EX2300-24T-DC     | EX2300 24-port 10/100/1000BaseT with internal DC PSU, 4 x 1/10G SFP/SFP+ (optics sold separately)                             |
| EX2300-24T-DC-TAA | EX2300-24T-DC-TAA | EX2300-24T-DC TAA SKU   |
| EX2300-24T-DC-U   | EX2300-24T-DC-U   | EX2300 24-port 10/100/1000BaseT with internal DC PSU, 4 x 1/10G SFP/SFP+ (optics sold separately); Country of origin USA      |
| EX2300-24T-TAA    | EX2300-24T-TAA    | EX2300 TAA 24-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+ (optics sold separately)  |
| EX2300-48MP       | EX2300-48MP       | EX2300 class 48 port switch with 32 x 1G, 16 x 1G/2.5G copper ports, 30w PoE  |
| EX2300-48MP-TAA   | EX2300-48MP-TAA   | TAA version of EX2300 48 port multigigabit switch with up to 30W POE per port   |
| EX2300-48P        | EX2300-48P        | EX2300 48-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+ (optics sold separately)   |
| EX2300-48P-TAA    | EX2300-48P-TAA    | EX2300 TAA 48-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+ (optics sold separately)   |
| EX2300-48T        | EX2300-48T        | EX2300 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+ (optics sold separately)  |
| EX2300-48T-TAA    | EX2300-48T-TAA    | EX2300 TAA 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+ (optics sold separately)  |
| EX2300-C-12P      | EX2300-C-12P      | EX2300 Compact Fanless 12-port 10/100/1000BaseT PoE+, 2 x 1/10G SFP/SFP+ (optics sold separately)                             |
| EX2300-C-12P-TAA  | EX2300-C-12P-TAA  | EX2300 TAA Compact Fanless 12-port 10/100/1000BaseT PoE+, 2 x 1/10G SFP/SFP+ (optics sold separately)                         |
| EX2300-C-12T      | EX2300-C-12T      | EX2300 Compact Fanless 12-port 10/100/1000BaseT, 2 x 1/10G SFP/SFP+ (optics sold separately)                                  |
| EX2300-C-12T-TAA  | EX2300-C-12T-TAA  | EX2300 TAA Compact Fanless 12-port 10/100/1000BaseT, 2 x 1/10G SFP/SFP+ (optics sold separately)                              |
| EX3300-24P        | EX3300-24P        | EX3300, 24-Port 10/100/1000BaseT (24-Ports PoE+) with 4 SFP+ 1/10G Uplink Ports (Optics Not Included)                         |

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| EX3300-24T         | EX3300-24T         | EX3300, 24-Port 10/100/1000BaseT with 4 SFP+ 1/10G Uplink Ports (Optics Not Included)  |
| EX3300-48T         | EX3300-48T         | EX3300, 48-Port 10/100/1000BaseT with 4 SFP+ 1/10G Uplink Ports (Optics Not Included)  |
| EX3300-48T-BF      | EX3300-48T-BF      | EX3300, 48-Port 10/100/1000BaseT with 4 SFP+ 1/10G Uplink Ports (Optics Not Included), Back-to-Front Cooling                         |
| EX3400-24P         | EX3400-24P         | EX3400 24-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-600-AC |
| EX3400-24P-TAA     | EX3400-24P-TAA     | EX3400 TAA 24-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-60 |
| EX3400-24P-U       | EX3400-24P-U       | EX3400 24-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-600-AC |
| EX3400-24T         | EX3400-24T         | EX3400 24-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-150-AC-AFO  |
| EX3400-24T-DC      | EX3400-24T-DC      | EX3400 24-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 DC PSU JPSU-150-DC-AFO  |
| EX3400-24T-TAA     | EX3400-24T-TAA     | EX3400 TAA 24-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-150-AC- |
| EX3400-24T-U       | EX3400-24T-U       | EX3400 24-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-150-AC-AFO  |
| EX3400-48P         | EX3400-48P         | EX3400 48-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-920-AC |
| EX3400-48P-2PS-TAA | EX3400-48P-2PS-TAA | EX3400-48P with redundant power supplies   |
| EX3400-48P-TAA     | EX3400-48P-TAA     | EX3400 TAA 48-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-92 |
| EX3400-48P-U       | EX3400-48P-U       | EX3400 48-port 10/100/1000BaseT PoE+, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-920-AC |
| EX3400-48T         | EX3400-48T         | EX3400 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-150-AC-AFO  |
| EX3400-48T-AFI     | EX3400-48T-AFI     | EX3400 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, back-to-front airflow, 1 AC PSU JPSU-150-AC-AFI  |
| EX3400-48T-AFI-2P  | EX3400-48T-AFI-2P  | EX3400 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, back-to-front airflow, 2 AC PSU JPSU-150-AC-AFI  |
| EX3400-48T-AFI-TAA | EX3400-48T-AFI-TAA | EX3400 TAA 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, back-to-front airflow, 1 AC PSU JPSU-150-AC- |
| EX3400-48T-DC      | EX3400-48T-DC      | EX3400-48T switch with JPSU-150-DC-AFO power supply  |
| EX3400-48T-RD-PSU  | EX3400-48T-RD-PSU  | EX3400-48T with Redundant Power Supplies   |
| EX3400-48T-TAA     | EX3400-48T-TAA     | EX3400 TAA 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-150-AC- |
| EX3400-48T-U       | EX3400-48T-U       | EX3400 48-port 10/100/1000BaseT, 4 x 1/10G SFP/SFP+, 2 x 40G QSFP+, redundant fans, front-to-back airflow, 1 AC PSU JPSU-150-AC-AFO  |
| EX3400-FAN-AFI     | EX3400-FAN-AFI     | EX3400 back-to-front Fan Spare   |
| EX3400-FAN-AFO     | EX3400-FAN-AFO     | EX3400 front-to-back Fan Spare   |

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| EX4000-12MP        | EX4000-12MP        | EX4000 12-Port Multi-Gig with 4x 100M/1G/2.5GBaseT, 8x 10/100/1000BaseT, PoE++, 4x 1G/10G SFP/SFP+(optics sold separately) with Stan |
| EX4000-24MP        | EX4000-24MP        | EX4000 24-Port Multi-Gig with 4x 100M/1G/2.5GBaseT, 20x 10/100/1000BaseT, PoE++, 4x 1G/10G SFP/SFP+(optics sold separately) with Sta |
| EX4000-48MP        | EX4000-48MP        | EX4000 48-Port Multi-Gig with 8x 100M/1G/2.5GBaseT, 40x 10/100/1000BaseT, PoE++, 4x 1G/10G SFP/SFP+(optics sold separately) with Sta |
| EX4100-24MP-CHAS   | EX4100-24MP-CHAS   | EX4100 24-Port Multi-Gig PoE++ switch chassis only. No Fans or PSUs  |
| EX4100-24P-CHAS    | EX4100-24P-CHAS    | EX4100 24-Port PoE+ switch chassis only. No Fans or PSUs   |
| EX4100-24T-CHAS    | EX4100-24T-CHAS    | EX4100 24-Port switch chassis only. No Fans or PSUs  |
| EX4100-48MP-CHAS   | EX4100-48MP-CHAS   | EX4100 48-Port Multi-Gig PoE++ switch chassis only. No Fans or PSUs  |
| EX4100-48P-CHAS    | EX4100-48P-CHAS    | EX4100 48-Port PoE+ switch chassis only. No Fans or PSUs   |
| EX4100-48T-CHAS    | EX4100-48T-CHAS    | EX4100 48-Port switch chassis only. No Fans or PSUs  |
| EX4100-F-12P       | EX4100-F-12P       | EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT, 4x 1G/10G SFP/SFP+ (optics sold separately) with Standard SW    |
| EX4100-F-12P-TAA   | EX4100-F-12P-TAA   | EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, TAA, 2x 1G/2.5G/10GBaseT, 4x 1G/10G SFP/SFP+ (optics sold separately) with Standard  |
| EX4100-F-12T       | EX4100-F-12T       | EX4100-F 12-Port Fanless 10/100/1000BaseT, 2x 1G/2.5G/10GBaseT, 4x 1G/10G SFP/SFP+ (optics sold separately) with Standard SW         |
| EX4100-F-12T-TAA   | EX4100-F-12T-TAA   | EX4100-F 12-Port Fanless 10/100/1000BaseT, TAA, 2x 1G/2.5G/10GBaseT, 4x 1G/10G SFP/SFP+ (optics sold separately) with Standard SW    |
| EX4100-F-24P       | EX4100-F-24P       | EX4100-F 24-Port 10/100/1000BaseT PoE+, 8x 1G/10G SFP/SFP+ (optics sold separately) with Standard SW                                 |
| EX4100-F-24T       | EX4100-F-24T       | EX4100-F 24-Port 10/100/1000BaseT, 8x 1G/10G SFP/SFP+ (optics sold separately) with Standard SW                                      |
| EX4100-F-48P       | EX4100-F-48P       | EX4100-F 48-Port 10/100/1000BaseT PoE+, 8x 1G/10G SFP/SFP+ (optics sold separately) with Standard SW                                 |
| EX4100-F-48T       | EX4100-F-48T       | EX4100-F 48-Port 10/100/1000BaseT, 8x 1G/10G SFP/SFP+ (optics sold separately) with Standard SW                                      |
| EX4100-FAN-AFI     | EX4100-FAN-AFI     | EX4100 BACK-TO-FRONT FAN   |
| EX4100-FAN-AFO     | EX4100-FAN-AFO     | EX4100 FRONT-TO-BACK FAN   |
| EX4100-F-PWR-280W  | EX4100-F-PWR-280W  | Power adapter(280W) for EX4100-F-12P switch  |
| EX4100-F-PWR-75W   | EX4100-F-PWR-75W   | Power adapter(75W) for EX4100-F-12T switch   |
| EX4100-H-12MP-CHAS | EX4100-H-12MP-CHAS | Chassis SKU for EX4100-H-12MP  |
| EX4200-48PX        | EX4200-48PX        | EX4200, 48-Port 10/100/1000BaseT PoE-Plus + 930W AC PS, includes 50cm VC cable   |
| EX4300-24P         | EX4300-24P         | EX4300, 24-Port 10/100/1000BaseT PoE-plus + 750W AC PS   |
| EX4300-24P-S       | EX4300-24P-S       | EX4300, Chassis, 24-Port 10/100/1000 BaseT PoE-Plus (No Power Supply or Fan Included)  |

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| EX4300-24P-TAA     | EX4300-24P-TAA     | EX4300 TAA, 24-Port 10/100/1000BaseT PoE-plus + 715W AC PS (provides 400W PoE+ power)  |
| EX4300-24T         | EX4300-24T         | EX4300, 24-Port 10/100/1000BaseT + 350W AC PS  |
| EX4300-24T-S       | EX4300-24T-S       | EX4300, Chassis, 24-Port 10/100/1000 BaseT (No Power Supply or Fan Included)   |
| EX4300-24T-TAA     | EX4300-24T-TAA     | EX4300 TAA, 24-Port 10/100/1000BaseT + 350W AC PS  |
| EX4300-32F         | EX4300-32F         | EX4300, 32-Port 1000BaseX SFP, 4x10GBaseX SFP+ and 350W AC PS (Optics sold separately)   |
| EX4300-32F-DC      | EX4300-32F-DC      | EX4300, 32-Port 1000BaseX SFP, 4x10GBaseX SFP+ and 550W DC PS (Optics sold separately)   |
| EX4300-32F-DC-TAA  | EX4300-32F-DC-TAA  | EX4300 TAA, 32-Port 1000BaseX SFP, 4x10GBaseX SFP+ and 550W DC PS (Optics sold separately)                                       |
| EX4300-32F-S       | EX4300-32F-S       | EX4300 spare chassis, 32-port 1000BaseX SFP, 4x10GBaseX SFP+, 2x40GBaseX QSFP+ (optics, power supplies and fans not included and |
| EX4300-32F-TAA     | EX4300-32F-TAA     | EX4300 TAA, 32-Port 1000BaseX SFP, 4x10GBaseX SFP+ and 350W AC PS (Optics sold separately)                                       |
| EX4300-48MP-FAN    | EX4300-48MP-FAN    | EX4300-48MP, Fan (Front to Back) Spare   |
| EX4300-48MP-S      | EX4300-48MP-S      | EX4300 class 48 Port Multi-Gig (spare) Switch with no PS, no fans.   |
| EX4300-48P         | EX4300-48P         | EX4300, 48-Port 10/100/1000BaseT PoE-plus + 1100W AC PS  |
| EX4300-48P-S       | EX4300-48P-S       | EX4300, Chassis, 48-Port 10/100/1000 BaseT PoE-Plus (No Power Supply or Fan Included)  |
| EX4300-48P-TAA     | EX4300-48P-TAA     | EX4300 TAA, 48-Port 10/100/1000BaseT PoE-plus + 1100W AC PS (provides 800W PoE+ power)   |
| EX4300-48T         | EX4300-48T         | EX4300, 48-Port 10/100/1000BaseT + 350W AC PS  |
| EX4300-48T-AFI     | EX4300-48T-AFI     | EX4300, 48-Port 10/100/1000BaseT + 350W AC PS (Airflow in)   |
| EX4300-48T-AFI-TAA | EX4300-48T-AFI-TAA | EX4300 TAA, 48-Port 10/100/1000BaseT + 350W AC PS (Airflow in)   |
| EX4300-48T-DC      | EX4300-48T-DC      | EX4300, 48-Port 10/100/1000BaseT + 550W DC PS  |
| EX4300-48T-DC-AFI  | EX4300-48T-DC-AFI  | EX4300, 48-Port 10/100/1000BaseT + 450W DC PS (Airflow in)   |
| EX4300-48T-DCI-TAA | EX4300-48T-DCI-TAA | EX4300 TAA, 48-Port 10/100/1000BaseT + 450W DC PS (Airflow in)   |
| EX4300-48T-DC-TAA  | EX4300-48T-DC-TAA  | EX4300 TAA, 48-Port 10/100/1000BaseT + 450W DC PS  |
| EX4300-48T-S       | EX4300-48T-S       | EX4300, Chassis, 48-Port 10/100/1000 BaseT (No Power Supply or Fan Included)   |
| EX4300-48T-TAA     | EX4300-48T-TAA     | EX4300 TAA, 48-Port 10/100/1000BaseT + 350W AC PS  |
| EX4300-FAN         | EX4300-FAN         | EX4300, Fan Spare  |
| EX4300-FAN-AFI     | EX4300-FAN-AFI     | EX4300, Fan with Airflow-In (Spare)  |

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| EX4400-24MP-S      | EX4400-24MP-S        | 24x10G Port Multigigabit POE switch spare. No fans/psu.   |
| EX4400-24P-S       | EX4400-24P-S         | EX4400 24x1G POE switch spare. No Fans/PSUs   |
| EX4400-24T-S       | EX4400-24T-S         | EX4400 24x1G switch. Spare. No Fans/PSUs.   |
| EX4400-24X-S       | EX4400-24X-S         | 24x10GbaseX switch with 2x100G uplink ports. MACsec AES256. Does not include PSU or Fan(both optional).<br>Optional module-4x10G or 4x2 |
| EX4400-48F-S       | EX4400-48F-S         | EX4400 12x10G 36x1G fiber switch. Spare. No Fans/PSUs.  |
| EX4400-48MP-S      | EX4400-48MP-S        | 12x10G 36x2.5G Multigigabit POE switch spare. No fans/PSU   |
| EX4400-48MXP-S     | EX4400-48MXP-S       | 12x10G 36x2.5G Multigigabit high POE switch spare. No fans/PSU  |
| EX4400-48P-S       | EX4400-48P-S         | EX4400 48x1G POE switch spare. No fans/psu  |
| EX4400-48T-S       | EX4400-48T-S         | EX4400 48x1G switch spare. No Fans/PSUs   |
| EX4400-48XP-S      | EX4400-48XP-S        | EX4400 48x1G High POE switch spare. No fans/psu   |
| EX4400-EM-1C       | EX4400-EM-1C         | 1x100G MACsec AES256 extension module for EX4400 switches   |
| EX4400-EM-4S       | EX4400-EM-4S         | 4x10G SFP+ extension module for EX4400 series of switches   |
| EX4400-EM-4Y       | EX4400-EM-4Y         | 4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256   |
| EX4400-FAN         | EX4400-FAN           | EX4400 AFO Fan  |
| EX4400-FAN-AFI     | EX4400-FAN-AFI       | EX4400 AFI Fan  |
| EX4500-40F-VC1-FB  | EX4500-40F-VC1-FB    | EX4500, 40-Port 1/10G SFP+ Converged Switch, Interconnect Module with 128G VC, 1200W AC PS, Front to Back Airflow (Optics Sold Separ    |
| EX4500-UM-4XSFP    | EX4500-UM-4XSFP      | EX4500, 4-Port 10G SFP+ Uplink Module (Optics Sold Separately)  |
| EX4550-FAN-MOD-AFO | EX4550-FANMODULE-AFO | EX4550, Fantray PSU-Side Airflow Exhaust (Spare)  |
| EX4600-40F-AFI     | EX4600-40F-AFI       | EX4600, 24 SFP+/SFP ports, 4 QSFP+ ports, 2 expansion slots, redundant fans, 2 AC power supplies, back to front airflow                 |
| EX4600-40F-AFI-T   | EX4600-40F-AFI-T     | EX4600, 24 SFP+/SFP ports, 4 QSFP+ ports, 2 expansion slots, redundant fans, 2 AC power supplies, back to front airflow, TAA            |
| EX4600-40F-AFO     | EX4600-40F-AFO       | EX4600, 24 SFP+/SFP ports, 4 QSFP+ ports, 2 expansion slots, redundant fans, 2 AC power supplies, front to back airflow                 |
| EX4600-40F-AFO-T   | EX4600-40F-AFO-T     | EX4600, 24 SFP+/SFP ports, 4 QSFP+ ports, 2 expansion slots, redundant fans, 2 AC power supplies, front to back airflow, TAA            |
| EX4600-40F-DC-AFI  | EX4600-40F-DC-AFI    | EX4600, 24 SFP+/SFP ports, 4 QSFP+ ports, 2 expansion slots, redundant fans, 2 DC power supplies, back to front airflow                 |
| EX4600-40F-DC-AFO  | EX4600-40F-DC-AFO    | EX4600, 24 SFP+/SFP ports, 4 QSFP+ ports, 2 expansion slots, redundant fans, 2 DC power supplies, front to back airflow                 |
| EX4600-40F-S       | EX4600-40F-S         | EX4600 spare chassis, 24 SFP+/SFP ports, 4 QSFP+ ports, 2 expansion slots, redundant fans, front to back airflow (optics, power supp    |

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| EX4600-EM-8F       | EX4600-EM-8F       | EX4600 8 port SFP+/SFP expansion module  |
| EX4650-48Y-AO-U    | EX4650-48Y-AO-U    | EX4650 48x25G+8x100G 1U AC port side intake and PSU side exhaust,(Optics sold separately); Country of origin USA       |
| EX4650-48Y-DC-AO-U | EX4650-48Y-DC-AO-U | EX4650 48x25G+8x100G 1U DC port side intake and PSU side exhaust,(Optics sold separately); Country of origin USA       |
| EX9200-10XS-MIC    | EX9200-10XS-MIC    | EX9200 Modular Interface Card (MIC) for EX9200-MPC, 10-Port 10GbaseX (Half-Slot); Requires SFP+ Optics Sold Separately |
| EX9200-12QS        | EX9200-12QS        | 12-port multi-rate card, 10/40/100GbE capable; requires SFP+/QFFP+/QSFP28 optics sold separately                       |
| EX9200-15C         | EX9200-15C         | 15x 100GbE line card with MACsec   |
| EX9200-20F-MIC     | EX9200-20F-MIC     | EX9200 Modular Interface Card (MIC) for EX9200-MPC, 20-Port GbaseX (Half-slot); Requires SFP Optics Sold Separately    |
| EX9200-2C-8XS      | EX9200-2C-8XS      | EX9200, 2-Port 100GbE + 8-Port 10GbE Line Card (Optics Sold Separately)  |
| EX9200-32XS        | EX9200-32XS        | 32-port 10GbE SFP+ line card; requires SFP+ optics sold separately   |
| EX9200-40F         | EX9200-40F         | EX9200, 40-Port 100FX/1000BASE-X SFP Line Card, requires SFP (Optics Sold Separately)                                  |
| EX9200-40F-M       | EX9200-40F-M       | 40-port 100FX/1000BASE-X SFP line card; MACsec capable; requires SFP optics sold separately                            |
| EX9200-40T         | EX9200-40T         | EX9200, 40-Port 10/100/1000BASE-T RJ-45 Line Card  |
| EX9200-40T-MIC     | EX9200-40T-MIC     | EX9200 modular Interface card (MIC) for EX9200-MPC, 40-port 10/100/1000 GbaseT RJ-45 (full-slot)                       |
| EX9200-40XS        | EX9200-40XS        | 40-port 10GbE SFP+ line card; MACsec capable; requires SFP+ optics sold separately                                     |
| EX9200-6QS         | EX9200-6QS         | 6-port 40GbE QSFP+ or 24-port SFP+ combo line card; optics sold separately   |
| EX9200-MPC         | EX9200-MPC         | EX9200 modular port card (MPC)   |
| EX9200-RE          | EX9200-RE          | EX9200, Routing Engine, Quad Core 1800Ghz with 16G Memory  |
| EX9200-RE2         | EX9200-RE2         | EX9200 Routing Engine 2  |
| EX9200-SF2         | EX9200-SF2         | EX9200 Switch Fabric 2 Module  |
| EX9200-SF3         | EX9200-SF3         | 1.5Tb/slot switch fabric card  |
| EX9204-CHAS3-S     | EX9204-CHAS3-S     | EX9204 Chassis 3 with Passive Midplane   |
| EX9204-CHAS-S      | EX9204-CHAS-S      | EX9204, 4-Slot Chassis with Passive Midplane   |
| EX9208-CHAS3-S     | EX9208-CHAS3-S     | EX9208 Chassis 3 with Passive Midplane   |
| EX9208-CHAS-S      | EX9208-CHAS-S      | EX9208, 8-Slot Chassis with Passive Midplane   |
| EX9214-CHAS3-S     | EX9214-CHAS3-S     | EX9214, 14-Slot Chassis with Passive Midplane  |



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| EX9251-CHAS        | EX9251-CHAS           | EX9251 Chassis, 1RU  |
| EX9253-6Q12C       | EX9253-6Q12C          | EX9253 Line card with 6x40GbE ports and 12x40GbE/100GbE ports, JNP-C1-MPC2 and JNP-C1-MIC1                                     |
| EX9253-6Q12C-M     | EX9253-6Q12C-M        | EX9253 Line card with 6x40GbE ports and 12x40GbE/100GbE MACsec ports, JNP-C1-MPC2 and JNP-C1-MIC2                              |
| EX9253-CHAS-3RU    | EX9253-CHAS-3RU       | EX9253 Chassis, 3RU  |
| EX9253-RE          | EX9253-RE             | EX9253 Route Engine  |
| EX-PWR-190-DC      | EX-PWR-190-DC         | 190W DC power supply for EX3200 and EX4200   |
| EX-PWR3-930-AC     | EX-PWR3-930-AC        | 930W AC Power Supply with PoE+ Capability for EX4200, EX3200 and EX-RPS-PWR-930-AC (Power Cord needs to be ordered separately) |
| EX-QSFP40GEDAC50CM | EX-QSFP-40GE-DAC-50CM | QSFP+ 40 Gigabit Ethernet Direct Attach Copper (Twinax Copper Cable) for 50cm Transmission                                     |
| EX-SFP-10GE-DAC-1M | EX-SFP-10GE-DAC-1M    | SFP+, 10GE Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.57W, 30 AWG                    |
| EX-SFP-10GE-DAC-3M | EX-SFP-10GE-DAC-3M    | SFP+, 10GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.57W, 30 AWG                   |
| EX-SFP-10GE-DAC-5M | EX-SFP-10GE-DAC-5M    | SFP+, 10GE Direct Attach Copper Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.57W, 24 AWG                   |
| EX-SFP-10GE-DAC-7M | EX-SFP-10GE-DAC-7M    | SFP+, 10GE Direct Attach Copper Cable, 7 meters, Standard Temperature (0 through 70 DEGREE C), 0.57W, 24 AWG                   |
| EX-SFP-10GE-ER     | EX-SFP-10GE-ER        | SFP+ 10GBase-ER 10 Gigabit Ethernet Optics Module, 1550nm for 40Km Transmission  |
| EX-SFP-10GE-LR     | EX-SFP-10GE-LR        | Small Form Factor Pluggable 10 Gigabit Ethernet (SFP+) LR Optics   |
| EX-SFP-10GE-LRM    | EX-SFP-10GE-LRM       | Small Form Factor Pluggable 10 Gigabit Ethernet (SFP+) LRM Optics  |
| EX-SFP-10GE-SR     | EX-SFP-10GE-SR        | Small Form Factor Pluggable 10 Gigabit Ethernet (SFP+) SR Optics   |
| EX-SFP-10GE-USR    | EX-SFP-10GE-USR       | SFP+ 10 Gigabit Ethernet Ultra Short Reach; 850 nm; 10m on OM1, 20m on OM2, 100m on OM3 Multi-Mode Fiber                       |
| EX-SFP-10GE-ZR     | EX-SFP-10GE-ZR        | SFP+, 10GBASE-ZR for Switching, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                   |
| EX-SFP-1FE-FX      | EX-SFP-1FE-FX         | SFP, 100BASE-FX for Switching/Security Platforms, MMF 2 km, Extended Temperature (-5 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-1FE-LX      | EX-SFP-1FE-LX         | SFP 100BASE-LX; LC connector; 1310nm; 10km Reach on Single Mode Fiber  |
| EX-SFP-1GE-LH      | EX-SFP-1GE-LH         | Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optics  |
| EX-SFP-1GE-LX      | EX-SFP-1GE-LX         | Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics  |
| EX-SFP-1GE-LX40K   | EX-SFP-1GE-LX40K      | SFP, 1000BASE-LX, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                                 |
| EX-SFP-1GE-SX      | EX-SFP-1GE-SX         | Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optics  |
| EX-SFP-1GE-SX-ET   | EX-SFP-1GE-SX-ET      | SFP, 1000Base-SX Gigabit Ethernet, Extended Temp Range Optics  |

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| EX-SFP-1GE-T       | EX-SFP-1GE-T       | Small Form Factor Pluggable 10/100/1000 Copper Transceiver Module                                       |
| EX-SFP-FE20KT13R15 | EX-SFP-FE20KT13R15 | SFP 100Base-BX Fast Ethernet Optics, Tx 1310nm/Rx 1550nm for 20km transmission                          |
| EX-SFP-FE20KT15R13 | EX-SFP-FE20KT15R13 | SFP 100Base-BX Fast Ethernet Optics, Tx 1550nm/Rx 1310nm for 20km transmission                          |
| EX-SFP-GE10KT13R14 | EX-SFP-GE10KT13R14 | SFP 1000Base-BX Gigabit Ethernet Optics, Tx 1310nm/Rx 1490nm for 10km transmission                      |
| EX-SFP-GE10KT13R15 | EX-SFP-GE10KT13R15 | SFP 1000Base-BX Gigabit Ethernet Optics, Tx 1310nm/Rx 1550nm for 10km Transmission                      |
| EX-SFP-GE10KT14R13 | EX-SFP-GE10KT14R13 | SFP 1000Base-BX Gigabit Ethernet Optics, Tx 1490nm/Rx 1310nm for 10km transmission                      |
| EX-SFP-GE10KT15R13 | EX-SFP-GE10KT15R13 | SFP 1000Base-BX Gigabit Ethernet Optics, Tx 1550nm/Rx 1310nm for 10km Transmission                      |
| EX-SFP-GE40KT13R15 | EX-SFP-GE40KT13R15 | SFP 1000Base-BX Gigabit Ethernet Optics, Tx 1310nm/Rx 1550nm for 40km Transmission                      |
| EX-SFP-GE40KT15R13 | EX-SFP-GE40KT15R13 | SFP 1000Base-BX Gigabit Ethernet Optics, Tx 1550nm/Rx 1310nm for 40km Transmission                      |
| EX-SFP-GE80KCW1470 | EX-SFP-GE80KCW1470 | SFP, 1000BASE-LX, 1470 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-GE80KCW1490 | EX-SFP-GE80KCW1490 | SFP, 1000BASE-LX, 1490 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-GE80KCW1510 | EX-SFP-GE80KCW1510 | SFP, 1000BASE-LX, 1510 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-GE80KCW1530 | EX-SFP-GE80KCW1530 | SFP, 1000BASE-LX, 1530 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-GE80KCW1550 | EX-SFP-GE80KCW1550 | SFP, 1000BASE-LX, 1550 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-GE80KCW1570 | EX-SFP-GE80KCW1570 | SFP, 1000BASE-LX, 1570 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-GE80KCW1590 | EX-SFP-GE80KCW1590 | SFP, 1000BASE-LX, 1590 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-SFP-GE80KCW1610 | EX-SFP-GE80KCW1610 | SFP, 1000BASE-LX, 1610 nm, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector |
| EX-UM-2QSFP        | EX-UM-2QSFP        | EX4300, 2-Port 40G QSFP+ Uplink Module  |
| EX-UM-2QSFP-MR     | EX-UM-2QSFP-MR     | EX4300-48MP, 2-Port 40G QSFP+/2-Port 100G QSFP28 Uplink Module  |
| EX-UM-4SFP         | EX-UM-4SFP         | EX 4200 and EX 3200 4-Port 1G SFP Uplink Module (optics sold separately)                                |
| EX-UM-4SFPP-MR     | EX-UM-4SFPP-MR     | EX4300-48MP, 4-Port 1G/10G SFP+ Uplink Module   |
| EX-UM-4X4SFP       | EX-UM-4X4SFP       | EX4300, 4-Port 10G SFP+/4-Port 1G SFP Uplink Module   |
| EX-UM-8X8SFP       | EX-UM-8X8SFP       | EX4300, 8-Port 10G SFP+/ 8-Port 1G SFP Uplink Module  |
| FAN3-PTX-H-BB      | FAN3-PTX-H-BB      | PTX Base Bundle Horizontal Fan Tray, for 3rd gen FPC and SIB, Base Bundle                               |
| FAN3-PTX-H-S       | FAN3-PTX-H-S       | PTX Base Bundle Horizontal Fan Tray, for 3rd gen FPC and SIB, Spare                                     |

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| FAN-PTX-H-BB     | FAN-PTX-H-BB     | PTX Base Bundle Horizontal Fan Tray, Sangria                 |
| FAN-PTX-H-S      | FAN-PTX-H-S      | PTX spare horizontal fan tray                                |
| FAN-PTX-V-BB     | FAN-PTX-V-BB     | PTX base bundle vertical fan tray                            |
| FAN-PTX-V-S      | FAN-PTX-V-S      | PTX spare vertical fan tray                                  |
| FAN-SFF-PTX-BB   | FAN-SFF-PTX-BB   | PTX Small Form Factor Fan Tray, Base Bundle                  |
| FAN-SFF-PTX-S    | FAN-SFF-PTX-S    | PTX Small Form Factor Fan Tray, Redundant                    |
| FANTRAY-M7I-S    | FANTRAY-M7I-S    | M7i Fan Tray Spare   |
| FANTRAY-MX104-BB | FANTRAY-MX104-BB | MX104 Fan Tray, Base Bundle, Altius-MX104, MX series         |
| FANTRAY-MX104-S  | FANTRAY-MX104-S  | Fan Tray for MX104, Spare                                    |
| FANTRAY-MX80-BB  | FANTRAY-MX80-BB  | Fan Tray for MX80, Base Bundle, MX80                         |
| FANTRAY-MX80-S   | FANTRAY-MX80-S   | Fan Tray for MX80, Spare, MX80                               |
| FC9686AL11       | FC9686AL11       | DWDM C-BAND LOW GAIN AMPLIFIER (LGA)                         |
| FC9686AM11       | FC9686AM11       | DWDM C-BAND MID GAIN AMPLIFIER (MGA)                         |
| FC9686C421-I03   | FC9686C421-I03   | 4-Channel CWDM Mux/Demux (Channels 1-4)                      |
| FC9686C422-I03   | FC9686C422-I03   | 4-Channel CWDM Mux/Demux (Channels 5-8)                      |
| FC9686C431       | FC9686C431       | Passive 4-Channel CWDM Mux/Dem                               |
| FC9686CKT1       | FC9686CKT1       | SINGLE EXPANSION-SHELF CABLE SFP-SFP, SHIELDED COPPER 1M     |
| FC9686FAN5-I03   | FC9686FAN5-I03   | COOLING UNIT   |
| FC9686FKL1       | FC9686FKL1       | AIR FILTER REPLACEMENT KIT FOR LARGE SHELF                   |
| FC9686IS06       | FC9686IS06       | SFP,CWDM CHANNEL #6 (1511NM, LC (FOR USE WITH INTEGRATED OSC |
| FC9686LS06       | FC9686LS06       | CWDM XR (OC3), CHANNNEL 6 (1511 NM)                          |
| FC9686M431       | FC9686M431       | DUAL 10G MULTIPROTOCOL TRANSPONDER                           |
| FC9686M431-I02   | FC9686M431-I02   | Enhanced Dual 10G Multiprotocol Transponder                  |
| FC9686MC11-I02   | FC9686MC11-I02   | 8 CHANNEL CWDM MUX-DEMUX #1 (CH 1 - 8), LC                   |
| FC9686MD11-I02   | FC9686MD11-I02   | 8 CHANNEL DWDM MUX DEMUX #1 (CH 1 - 8), LC                   |

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| FC9686MD41-I02 | FC9686MD41-I02 | 8 CHANNEL DWDM MUX-DEMUX #4 (CH 25 - 32), LC                               |
| FC9686MD51     | FC9686MD51     | 40-CHANNEL DWDM MUX/DEMUX  |
| FC9686MP81-I03 | FC9686MP81-I03 | 10-PORT 10G MULTIPROTOCOL MUXPONDER - SONET                                |
| FC9686MP81-I04 | FC9686MP81-I04 | 10-PORT 10G MULTIPROTOCOL MUXPONDER - SONET                                |
| FC9686MP82-I03 | FC9686MP82-I03 | 10-PORT 10G MULTIPROTOCOL MUXPONDER - SDH                                  |
| FC9686MS01     | FC9686MS01     | SFP, 125M-2.7G, DWDM ER CHANNEL #1 (1559.79nm) LC                          |
| FC9686MS02     | FC9686MS02     | SFP, 125M-2.7G, DWDM ER CHANNEL #2 (1558.98NM) LC                          |
| FC9686MS03     | FC9686MS03     | SFP, 125M-2.7G, DWDM ER CHANNEL #3 (1558.17NM),LC                          |
| FC9686MS05     | FC9686MS05     | SFP, 125M-2.7G, DWDM ER CHANNEL #5 (1556.55NM),LC                          |
| FC9686MS06     | FC9686MS06     | SFP, 125M-2.7G, DWDM ER CHANNEL #6 (1555.75NM),LC                          |
| FC9686MS07     | FC9686MS07     | SFP, 125M-2.7G, DWDM ER CHANNEL #7 (1554.94NM),LC                          |
| FC9686MS08     | FC9686MS08     | SFP, 125M-2.7G, DWDM ER CHANNEL #8 (1554.13NM),LC                          |
| FC9686MSC8     | FC9686MSC8     | SFP, 125M-2.7G, CWDM LR CHANNEL #8 (1471NM) ,LC                            |
| FC9686MSI2-I02 | FC9686MSI2-I02 | MAIN SHELF INTERFACE   |
| FC9686MSIR     | FC9686MSIR     | SFP, 125M-2.7G, 1310NM, IR   |
| FC9686MSSR     | FC9686MSSR     | SFP, 125M-2.7G, 1310NM, SR   |
| FC9686MX99     | FC9686MX99     | XFP: DWDM LR, CHANNEL 99   |
| FC9686MXC5     | FC9686MXC5     | XFP, 9.9 - 11.1 GBPS, CWDM 80KM CHANNEL #5 (1531NM), LC                    |
| FC9686MXC6     | FC9686MXC6     | XFP, 9.9 - 11.1 GBPS, CWDM 80KM CHANNEL #6 (1511NM), LC                    |
| FC9686MXSR     | FC9686MXSR     | XFP, 9.9-11.1 GBPS, 1310NM SR  |
| FC9686OCD1-I02 | FC9686OCD1-I02 | OPTICAL COUPLER SPLITTER, DUAL DIRECTION 1510NM, SC                        |
| FC9686PSAA     | FC9686PSAA     | 12 PORT PACKETVX SERVICE AGGREGATION MODULE (2 XFP PORTS)                  |
| FC9686PSCA     | FC9686PSCA     | 24 PORT PACKETVX SERVICE AGGREGATION MODULE (4 XFP PORTS)                  |
| FC9686SCP3-I02 | FC9686SCP3-I02 | FW7120 SYSTEM CONTROL PROCESSOR UNIT                                       |
| FC9686SCP3-I03 | FC9686SCP3-I03 | FW7120 SYSTEM CONTROL PROCESSOR UNIT w/ EXTENDED TEMPERATURE RANGE SUPPORT |

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| FC9686SHA3         | FC9686SHA3         | FLASHWAVE 7120, 7RU SHELF, REAR POWER ACCESS   |
| FC9686SHL2         | FC9686SHL2         | 2U SHELF (6SLOTS)  |
| FC9686SHL3         | FC9686SHL3         | 2U SHELF (6 SLOTS) WITH REAR ACCESS POWER  |
| FC9686SHP1         | FC9686SHP1         | 1U PASSIVE SHELF ASSEMBLY W/MOUNTING HARDWARE (2 SLOTS) (ANS   |
| FC9686TSMM         | FC9686TSMM         | SFP, TRI-RATE, GE, 1GFC, 2GFC, SX,MM,DDM   |
| FC9686WM21-I02     | FC9686WM21-I02     | WAVELENGTH MANAGER (3R WITH PM), 4 PORT, 2.7G (125M-2.7G) SO   |
| FC9686WR21         | FC9686WR21         | WAVELENGTH REGENERATOR (3R), 4 PORT, 2.5G (125M-2.7G) LC   |
| FFILTER-MX960-HC-S | FFILTER-MX960-HC-S | MX960 Filter tray for high-capacity fantray, Spare   |
| FPC2-PTX-P1A       | FPC2-PTX-P1A       | PTX 2nd Generation FPC   |
| FPC3-PTX-U2        | FPC3-PTX-U2        | PTX5000 3rd Generation Universal FPC   |
| FPC3-PTX-U3        | FPC3-PTX-U3        | PTX5000 3rd Generation High Density Universal FPC  |
| FPC3-SFF-PTX-1H    | FPC3-SFF-PTX-1H    | PTX3000 3rd Generation 1Tbps High Density Universal FPC (half capacity 500Gbps)  |
| FPC3-SFF-PTX-1T    | FPC3-SFF-PTX-1T    | PTX3000 3rd Generation 1Tbps High Density Universal FPC  |
| FPC3-SFF-PTX-U1    | FPC3-SFF-PTX-U1    | PTX3000 3rd Generation Small Form Factor universal FPC3  |
| FPC-SFF-PTX-P1-A   | FPC-SFF-PTX-P1-A   | PTX SFF 1st generation FPC   |
| FPC-SFF-PTX-T      | FPC-SFF-PTX-T      | PTX Small Form Factor Transport FPC with 10ms RTT buffer size  |
| FPD-SFF-PTX-S      | FPD-SFF-PTX-S      | PTX SFF Front Panel Display module Spare   |
| GNSS-TMG-RCVR      | GNSS-TMG-RCVR      | GNSS Receiver FRU (Field replaceable unit) Spare   |
| JA2500-A-BSE       | JA2500-A-BSE       | Junos Space 2500 - Large Appliance   |
| JATP400-2TB-HDD    | JATP400-2TB-HDD    | HDD: 3.5" 2TB SATA 6Gb/s 7.2K RPM. Replacement hard drive for the JATP400  |
| JATP400-500W-AC    | JATP400-500W-AC    | 500W AC power supply unit for the JATP400 appliance  |
| JATP400-650W-DC    | JATP400-650W-DC    | 650W DC power supply unit for the JATP400 appliance  |
| JATP400-CHAS       | JATP400-CHAS       | JATP400 1U appliance,1x10cores,4x2TB HDD,2x10G(SFP+) 2x10G(RJ-45) 4x1G(RJ-45) on-board ports. No power supplies or hard drives inclu |
| JATP700-AC-ALL     | JATP700-AC-ALL     | JATP700 2U appliance,2x10cores,8x900GB HDD,2x10G(SFP+) and 4x1G(RJ-45) on-board ports,dual AC PSU,AllinOne software installed        |
| JATP700-AC-COL     | JATP700-AC-COL     | JATP700 2U appliance,2x10cores,8x900GB HDD,2x10G(SFP+) and 4x1G(RJ-45) on-board ports,dual AC PSU,Collector software installed       |

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| JATP700-AC-CORE    | JATP700-AC-CORE    | JATP700 2U appliance,2x10cores,8x900GB HDD,2x10G(SFP+) and 4x1G(RJ-45) on-board ports,dual AC PSU,Core software installed            |
| JATP700-DC-ALL     | JATP700-DC-ALL     | JATP700 2U appliance,2x10cores,8x900GB HDD,2x10G(SFP+) and 4x1G(RJ-45) on-board ports,dual DC PSU,AllinOne software installed        |
| JATP700-DC-COL     | JATP700-DC-COL     | JATP700 2U appliance,2x10cores,8x900GB HDD,2x10G(SFP+) and 4x1G(RJ-45) on-board ports,dual DC PSU,Collector software installed       |
| JATP700-DC-CORE    | JATP700-DC-CORE    | JATP700 2U appliance,2x10cores,8x900GB HDD,2x10G(SFP+) and 4x1G(RJ-45) on-board ports,dual DC PSU,Core software installed            |
| JCO400-QDD-ZR      | JCO400-QDD-ZR      | Juniper Coherent Optics, QSFP56-DD, OIF 400ZR, SMF 40-120km, Standard Temperature (0 through 70 deg C), Duplex LC Connector          |
| JCO400-QDD-ZR-M    | JCO400-QDD-ZR-M    | Juniper Coherent Optics, QSFP56-DD, OpenZR+ 400G ZR+, SMF 40-1000+ km, Standard Temperature (0 through 70 deg C), Duplex LC Connecto |
| JCO400-QDD-ZR-M-HP | JCO400-QDD-ZR-M-HP | Juniper Coherent Optics, QSFP56-DD, OpenZR+ 400G-ZR+, 0dBm, SMF 40-1000+ km, Standard Temperature (0 through 70 deg C), Duplex LC Co |
| JCO-4C-ZRM-HP-P-B  | JCO-4C-ZRM-HP-P-B  | Bundle containing 1 JCO400-QDD-ZR-M-HP optic and 1 S-JCO-400-A1-ZRM-P perpetual coherent optics license                              |
| JNP10001-36MR      | JNP10001-36MR      | JNP10001 chassis with 36 QSFP56-DD / QSFP28 multi-rate ports, no power supplies or fans  |
| JNP10001-36MR-K    | JNP10001-36MR-K    | JNP10001 chassis with 36 QSFP56-DD / QSFP28 multi-rate ports, TPM2.0 with DevID, no power supplies or fans                           |
| JNP10001-36MR-LT   | JNP10001-36MR-LT   | JNP10001 chassis with 36 QSFP56-DD / QSFP28 multi-rate ports, no power supplies or fans, with JUNOS EVO, Limited Only                |
| JNP10001-CHAS      | JNP10001-CHAS      | JNP10001 Chassis spare without FAN and Power supply  |
| JNP10002-60C-CHAS  | JNP10002-60C-CHAS  | JNP System with 60 100G Ports or 60 40G Ports or 192 10G Ports, Chassis only   |
| JNP10002-FAN1      | JNP10002-FAN1      | QFX10002 FAN TRAY  |
| JNP10002-FAN2      | JNP10002-FAN2      | Fan Tray for JNP10002 BX fixed platform, Spare   |
| JNP10002-FAN2-BB   | JNP10002-FAN2-BB   | Fan Tray for JNP10002 BX fixed platform, Base  |
| JNP10003-160C-CHAS | JNP10003-160C-CHAS | JNP10003-160C spare chassis with 160 100GE ports or 32 400GE ports   |
| JNP10003-80C-CHAS  | JNP10003-80C-CHAS  | JNP10003-80C spare chassis with 80 100GE ports or 16 400GE ports   |
| JNP10003-CHAS      | JNP10003-CHAS      | JNP10003 CHASSIS   |
| JNP10003-CHAS-BB   | JNP10003-CHAS-BB   | JNP10003 Chassis Base unit   |
| JNP10003-FAN       | JNP10003-FAN       | Fan Tray for 3RU 8T and 16T Fixed Platforms  |
| JNP10003-LC2103    | JNP10003-LC2103    | 12x100G/18x40G/72x10G Line Card  |
| JNP10003-LC2103-V2 | JNP10003-LC2103-V2 | 12x100G/18x40G/72x10G Line Card with QuadCore Processor  |
| JNP10003-RE1       | JNP10003-RE1       | JNP10003 Routing Engine  |
| JNP10003-RE1-BB    | JNP10003-RE1-BB    | JNP10003 Routing Engine, Base  |

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| JNP10003-RE1-LT    | JNP10003-RE1-LT    | JNP10003 Routing Engine, Limited  |
| JNP10003-RE1-LT-BB | JNP10003-RE1-LT-BB | JNP10003 Routing Engine, Limited, Base                                      |
| JNP10003-RE1-LT-R  | JNP10003-RE1-LT-R  | JNP10003 Limited Encryption Routing Engine, Redundant for second MX10003 RE |
| JNP10003-RE1-R     | JNP10003-RE1-R     | JNP10003 Routing Engine, Redundant  |
| JNP10004-CHAS      | JNP10004-CHAS      | JNP10004 Chassis  |
| JNP10004-CHAS-BB   | JNP10004-CHAS-BB   | JNP10004 Chassis Base Bundle  |
| JNP10004-FAN2      | JNP10004-FAN2      | JNP10004 Fan-Tray dual-fans   |
| JNP10004-FAN2-BB   | JNP10004-FAN2-BB   | JNP10004 Fan-Tray dual-fans, Base Bundle                                    |
| JNP10004-FAN3      | JNP10004-FAN3      | JNP10004 Gen3 Fan-tray supported by JNP10004-FTC2                           |
| JNP10004-FAN3-BB   | JNP10004-FAN3-BB   | JNP10004 Gen3 Fan-tray supported by JNP10004-FTC2, Base Bundle              |
| JNP10004-FRNT-PNL  | JNP10004-FRNT-PNL  | JNP10004 Chassis Front Panel  |
| JNP10004-FRPNL1    | JNP10004-FRPNL1    | JNP10004 Chassis Front Panel with Filter                                    |
| JNP10004-FRPNL1-BB | JNP10004-FRPNL1-BB | JNP10004 Chassis Front Panel with Filter, Base Bundle                       |
| JNP10004-FRPNL-BB  | JNP10004-FRPNL-BB  | JNP10004 Chassis Front Panel, Base Bundle                                   |
| JNP10004-FTC2      | JNP10004-FTC2      | JNP10004 Fan2 Controller  |
| JNP10004-FTC2-BB   | JNP10004-FTC2-BB   | JNP10004 Fan2 Controller, Base Bundle                                       |
| JNP10004-FTC3      | JNP10004-FTC3      | JNP10004 Fan3 Controller  |
| JNP10004-FTC3-BB   | JNP10004-FTC3-BB   | JNP10004 Fan3 Controller Base Bundle  |
| JNP10004-SF2       | JNP10004-SF2       | JNP10004 Switch Fabric Card   |
| JNP10004-SF2-BB    | JNP10004-SF2-BB    | JNP10004 Switch Fabric Card, Base   |
| JNP10004-SF2-R     | JNP10004-SF2-R     | JNP10004 Switch Fabric Card, Redundant                                      |
| JNP10004-SF3       | JNP10004-SF3       | JNP10004 SIB supporting upto 14.4T linecard                                 |
| JNP10004-SF3-BB    | JNP10004-SF3-BB    | JNP10004 SIB supporting upto 14.4T linecard, Base Bundle                    |
| JNP10004-SF3-R     | JNP10004-SF3-R     | JNP10004 SIB supporting upto 14.4T linecard, Redundant                      |
| JNP10008-CHAS      | JNP10008-CHAS      | JNP10008 Spare Chassis  |

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| JNP10008-CHAS-BB   | JNP10008-CHAS-BB   | JNP10008 Chassis, Base  |
| JNP10008-FAN       | JNP10008-FAN       | JNP10008 Fan  |
| JNP10008-FAN2      | JNP10008-FAN2      | JNP10008 Fan-tray Gen2  |
| JNP10008-FAN2-BB   | JNP10008-FAN2-BB   | JNP10008 Fan2, Base Bundle  |
| JNP10008-FAN3      | JNP10008-FAN3      | JNP10008 Gen3 Fan-tray supported by JNP10008-FTC2   |
| JNP10008-FAN3-BB   | JNP10008-FAN3-BB   | JNP10008 Gen3 Fan-tray supported by JNP10008-FTC2, Base Bundle                                      |
| JNP10008-FAN-BB    | JNP10008-FAN-BB    | JNP10008 Fan, Base  |
| JNP10008-FAN-CTRL  | JNP10008-FAN-CTRL  | JNP10008 Fan tray controller  |
| JNP10008FANCTRL-BB | JNP10008FANCTRL-BB | JNP10008 Fan tray controller, Base  |
| JNP10008-FTC2      | JNP10008-FTC2      | JNP10008 Fan2 Controller  |
| JNP10008-FTC2-BB   | JNP10008-FTC2-BB   | JNP10008 Fan2 Controller, Base Bundle   |
| JNP10008-FTC3      | JNP10008-FTC3      | JNP10008 Fan3 Controller  |
| JNP10008-FTC3-BB   | JNP10008-FTC3-BB   | JNP10008 Fan3 Controller Base Bundle  |
| JNP10008-SF        | JNP10008-SF        | JNP10008 Switch Fabric Card   |
| JNP10008-SF2       | JNP10008-SF2       | JNP10008 8-slot Switch Fabric Card supporting 9.6Tbps per LC slot and interop with 3T LC            |
| JNP10008-SF2-BB    | JNP10008-SF2-BB    | JNP10008 8-slot Switch Fabric Card supporting 9.6Tbps per LC slot and interop with 3T LC, BB        |
| JNP10008-SF2-R     | JNP10008-SF2-R     | JNP10008 8-slot Switch Fabric Card supporting 9.6Tbps per LC slot and interop with 3T LC, Redundant |
| JNP10008-SF3       | JNP10008-SF3       | JNP10008 8-slot Switch Fabric Card supporting 14.4Tbps per LC slot                                  |
| JNP10008-SF3-BB    | JNP10008-SF3-BB    | JNP10008 8-slot Switch Fabric Card supporting 14.4Tbps per LC slot, BB                              |
| JNP10008-SF3-R     | JNP10008-SF3-R     | JNP10008 SIB supporting 14.4T LC Redundant  |
| JNP10008-SF-BB     | JNP10008-SF-BB     | JNP10008 Switch Fabric Card, Base   |
| JNP10008-SF-R      | JNP10008-SF-R      | JNP10008 Switch Fabric Card, Redundant  |
| JNP10016-CHAS      | JNP10016-CHAS      | JNP10016 Spare Chassis  |
| JNP10016-CHAS-BB   | JNP10016-CHAS-BB   | JNP10016 Chassis, Base  |
| JNP10016-FAN       | JNP10016-FAN       | JNP10016 Fan  |



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| JNP10016-FAN2      | JNP10016-FAN2      | JNP10016 Fan-tray Gen2   |
| JNP10016-FAN2-BB   | JNP10016-FAN2-BB   | JNP10016 Fan2, Base Bundle   |
| JNP10016-FAN-BB    | JNP10016-FAN-BB    | JNP10016 Fan, Base   |
| JNP10016-FAN-CTRL  | JNP10016-FAN-CTRL  | JNP10016 Fan tray controller   |
| JNP10016FANCTRL-BB | JNP10016FANCTRL-BB | JNP10016 Fan tray controller, Base   |
| JNP10016-FTC2      | JNP10016-FTC2      | JNP10016 Fan2 Controller   |
| JNP10016-FTC2-BB   | JNP10016-FTC2-BB   | JNP10016 Fan2 Controller, Base Bundle  |
| JNP10016-SF        | JNP10016-SF        | JNP10016 Switch Fabric Card  |
| JNP10016-SF3       | JNP10016-SF3       | JNP10016 16-slot Switch Fabric Card supporting 14.4Tbps per LC slot  |
| JNP10016-SF3-BB    | JNP10016-SF3-BB    | JNP10016 16-slot Switch Fabric Card supporting 14.4Tbps per LC slot, BB  |
| JNP10016-SF3-R     | JNP10016-SF3-R     | JNP10016 SIB supporting 14.4T LC Redundant   |
| JNP10016-SF-BB     | JNP10016-SF-BB     | JNP10016 Switch Fabric Card, Base  |
| JNP10016-SF-R      | JNP10016-SF-R      | JNP10016 Switch Fabric Card, Redundant   |
| JNP-100G-2X50G-1M  | JNP-100G-2X50G-1M  | QSFP28 to QSFP28, 100GE to 2x50GE Direct Attach Copper Breakout Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 1.5W,  |
| JNP-100G-2X50G-2M  | JNP-100G-2X50G-2M  | QSFP28 to 2xQSFP28 (100G to 2x50G) Copper Breakout Direct Attach Cable 2m (26 AWG) Standard Temperature (0 through 70 degC)          |
| JNP-100G-2X50G-3M  | JNP-100G-2X50G-3M  | QSFP28 to QSFP28, 100GE to 2x50GE Direct Attach Copper Breakout Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W  |
| JNP-100G-4X25G-1M  | JNP-100G-4X25G-1M  | QSFP28 to SFP28, 100GE to 4x25GE, Direct Attach Copper Breakout Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.015  |
| JNP-100G-4X25G-3M  | JNP-100G-4X25G-3M  | QSFP28 to SFP28, 4x25GE Direct Attach Copper Breakout Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 28 AWG  |
| JNP-100G-4X25G-5M  | JNP-100G-4X25G-5M  | QSFP28 to SFP28, 100GE to 4x25GE, Direct Attach Copper Breakout Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.5 W |
| JNP-100G-AOC-10M   | JNP-100G-AOC-10M   | QSFP28, 100GE Active Optical Cable, 10 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                     |
| JNP-100G-AOC-15M   | JNP-100G-AOC-15M   | QSFP28, 100GE Active Optical Cable, 15 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                     |
| JNP-100G-AOC-1M    | JNP-100G-AOC-1M    | QSFP28, 100GE Active Optical Cable, 1 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                      |
| JNP-100G-AOC-20M   | JNP-100G-AOC-20M   | QSFP28, 100GE Active Optical Cable, 20 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                     |
| JNP-100G-AOC-30M   | JNP-100G-AOC-30M   | QSFP28, 100GE Active Optical Cable, 30 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                     |
| JNP-100G-AOC-3M    | JNP-100G-AOC-3M    | QSFP28, 100GE Active Optical Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                      |

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| JNP-100G-AOC-5M    | JNP-100G-AOC-5M    | QSFP28, 100GE Active Optical Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                      |
| JNP-100G-AOC-7M    | JNP-100G-AOC-7M    | QSFP28, 100GE Active Optical Cable, 7 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, Pull Tab                      |
| JNP-100G-AOCBO-10M | JNP-100G-AOCBO-10M | QSFP28 to SFP28, 100G to 4x25GE, Active Optical Cable for Breakout, 10 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, D |
| JNP-100G-AOCBO-15M | JNP-100G-AOCBO-15M | QSFP28 to SFP28, 100GE to 4x25GE, Active Optical Cable for Breakout, 15 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W,  |
| JNP-100G-AOCBO-1M  | JNP-100G-AOCBO-1M  | QSFP28 to SFP28, 100GE to 4x25GE, Active Optical Cable for Breakout, 1 meter, Standard Temperature (0 through 70 DEGREE C), 3.5W, DD |
| JNP-100G-AOCBO-20M | JNP-100G-AOCBO-20M | QSFP28 to SFP28, 100GE to 4x25GE, Active Optical Cable for Breakout, 20 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W,  |
| JNP-100G-AOCBO-30M | JNP-100G-AOCBO-30M | QSFP28 to SFP28, 100GE to 4x25GE, Active Optical Cable for Breakout, 30 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W,  |
| JNP-100G-AOCBO-3M  | JNP-100G-AOCBO-3M  | QSFP28 to SFP28, 100GE to 4x25GE, Active Optical Cable for Breakout, 3 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, D |
| JNP-100G-AOCBO-5M  | JNP-100G-AOCBO-5M  | QSFP28 to SFP28, 100GE to 4x25GE, Active Optical Cable for Breakout, 5 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, D |
| JNP-100G-AOCBO-7M  | JNP-100G-AOCBO-7M  | QSFP28 to SFP28, 100GE to 4x25GE, Active Optical Cable for Breakout, 7 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, D |
| JNP-100G-DAC-1M    | JNP-100G-DAC-1M    | QSFP28, 100GE Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.015W, 30 AWG                      |
| JNP-100G-DAC-3M    | JNP-100G-DAC-3M    | QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG                     |
| JNP-100G-DAC-5M    | JNP-100G-DAC-5M    | QSFP28, 100GE Direct Attach Copper Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG                     |
| JNP-1010W-DC-PS    | JNP-1010W-DC-PS    | FRU:850W/1010W DC Replacement Power Supply. Compatible with JSA7800. Cannot mix DC & AC in the same system.                          |
| JNP-10G-AOC-10M    | JNP-10G-AOC-10M    | SFP+. 10GE Active Optical Cable, 10 meters, Standard Temperature (0 through 70 DEGREE C)   |
| JNP-10G-AOC-15M    | JNP-10G-AOC-15M    | SFP+. 10GE Active Optical Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C)  |
| JNP-10G-AOC-1M     | JNP-10G-AOC-1M     | SFP+. 10GE Active Optical Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C)   |
| JNP-10G-AOC-20M    | JNP-10G-AOC-20M    | SFP+. 10GE Active Optical Cable, 20 meters, Standard Temperature (0 through 70 DEGREE C)   |
| JNP-10G-AOC-30M    | JNP-10G-AOC-30M    | SFP+. 10GE Active Optical Cable, 30 meters, Standard Temperature (0 through 70 DEGREE C)   |
| JNP-10G-AOC-3M     | JNP-10G-AOC-3M     | SFP+. 10GE Active Optical Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C)  |
| JNP-10G-AOC-5M     | JNP-10G-AOC-5M     | SFP+. 10GE Active Optical Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C)  |
| JNP-10G-AOC-7M     | JNP-10G-AOC-7M     | SFP+. 10GE Active Optical Cable, 7 meters, Standard Temperature (0 through 70 DEGREE C)  |
| JNP10K-LC1101      | JNP10K-LC1101      | 30X100G/30X40G Line Card   |
| JNP10K-LC1102      | JNP10K-LC1102      | 36X40G/12X100G Line Card   |

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| JNP10K-LC1105      | JNP10K-LC1105      | JNP10K 30x100G MACsec Line Card  |
| JNP10K-LC1201      | JNP10K-LC1201      | JNP10K 14.4Tbps Linecard w/ 36xQSFP-DD                                 |
| JNP10K-LC1202      | JNP10K-LC1202      | JNP10K 4.8Tbps Linecard multi-rate with 4xQSFP-DD+32xQSFP28            |
| JNP10K-LC2101      | JNP10K-LC2101      | JNP10008 24x100G/24x40G/96x10G Line Card                               |
| JNP10K-LC480       | JNP10K-LC480       | JNP10008 48X10G/48X1G Line Card  |
| JNP10K-LC4800      | JNP10K-LC4800      | 4x400G QSFP56-DD + 40x100G SFP56-DD 4.8T Line Card                     |
| JNP10K-LC9600      | JNP10K-LC9600      | 24X400G/ 96X100G LINE CARD   |
| JNP10K-PWR-AC      | JNP10K-PWR-AC      | JNP10K 2700W AC Power Supply   |
| JNP10K-PWR-AC2     | JNP10K-PWR-AC2     | JNP10K AC PSU Gen2 5.5KW supporting HVDC                               |
| JNP10K-PWR-AC2-BB  | JNP10K-PWR-AC2-BB  | JNP10K 5500W AC Power Supply, Base Bundle                              |
| JNP10K-PWR-AC2H    | JNP10K-PWR-AC2H    | JNP10K 3KW-only AC/HVDC Power Supply                                   |
| JNP10K-PWR-AC2-R   | JNP10K-PWR-AC2-R   | JNP10K 5500W AC Power Supply, Redundant                                |
| JNP10K-PWR-AC3     | JNP10K-PWR-AC3     | JNP10K Gen3 7800W AC Power Supply supporting AC/HVDC/HVAC              |
| JNP10K-PWR-AC3-BB  | JNP10K-PWR-AC3-BB  | JNP10K Gen3 7800W AC Power Supply supporting AC/HVDC/HVAC, Base Bundle |
| JNP10K-PWR-AC3-R   | JNP10K-PWR-AC3-R   | JNP10K Gen3 7800W AC Power Supply supporting AC/HVDC/HVAC, Redundant   |
| JNP10K-PWR-AC-BB   | JNP10K-PWR-AC-BB   | JNP10K 2700W AC Power Supply, Base                                     |
| JNP10K-PWR-AC-R    | JNP10K-PWR-AC-R    | JNP10K 2700W AC Power Supply, Redundant                                |
| JNP10K-PWR-BLN3    | JNP10K-PWR-BLN3    | JNP10K Gen3 Power Supply Blank Cover with active cooling               |
| JNP10K-PWR-BLN3-BB | JNP10K-PWR-BLN3-BB | JNP10K Gen3 Power Supply Blank Cover with active cooling, Base Bundle  |
| JNP10K-PWR-DC      | JNP10K-PWR-DC      | JNP10K 2500W DC Power Supply   |
| JNP10K-PWR-DC2     | JNP10K-PWR-DC2     | JNP10K DC PSU Gen2 5.5KW   |
| JNP10K-PWR-DC2-BB  | JNP10K-PWR-DC2-BB  | JNP10K 5500W DC Power Supply, Base Bundle                              |
| JNP10K-PWR-DC2-R   | JNP10K-PWR-DC2-R   | JNP10K 5500W DC Power Supply, Redundant                                |
| JNP10K-PWR-DC3     | JNP10K-PWR-DC3     | JNP10K Gen3 7800W DC Power Supply                                      |
| JNP10K-PWR-DC3-BB  | JNP10K-PWR-DC3-BB  | JNP10K Gen3 7800W DC Power Supply, Base Bundle                         |

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| JNP10K-PWR-DC3-R   | JNP10K-PWR-DC3-R   | JNP10K Gen3 7800W DC Power Supply, Redundant  |
| JNP10K-PWR-DC-BB   | JNP10K-PWR-DC-BB   | JNP10K 2500W DC Power Supply, Base  |
| JNP10K-PWR-DC-R    | JNP10K-PWR-DC-R    | JNP10K 2500W DC Power Supply, Redundant   |
| JNP10K-RE0         | JNP10K-RE0         | JNP10K Routing Engine, Quad-Core 2.5GHZ 32G Memory  |
| JNP10K-RE0-BB      | JNP10K-RE0-BB      | JNP10K Routing Engine, Quad-Core 2.5GHZ 32G Memory, Base                                  |
| JNP10K-RE0-R       | JNP10K-RE0-R       | JNP10K Routing Engine, Quad-Core 2.5GHZ 32G Memory, Redundant                             |
| JNP10K-RE1         | JNP10K-RE1         | JNP10K RE, SPARE  |
| JNP10K-RE1-128     | JNP10K-RE1-128     | JNP10K RE 128G MEM, SPARE   |
| JNP10K-RE1-128-BB  | JNP10K-RE1-128-BB  | JNP10K RE 128G MEM, BASE  |
| JNP10K-RE1-128-R   | JNP10K-RE1-128-R   | JNP10K RE 128G MEM, REDUNDANT   |
| JNP10K-RE1-BB      | JNP10K-RE1-BB      | JNP10K Routing Engine, Base   |
| JNP10K-RE1-E       | JNP10K-RE1-E       | JNP10K-RE1-E  |
| JNP10K-RE1-E128    | JNP10K-RE1-E128    | JNP10K Routing Engine, 10-Core 2.2GHZ 128G Memory, with JUNOS-Evolution                   |
| JNP10K-RE1-E128-BB | JNP10K-RE1-E128-BB | JNP10K Routing Engine, 10-Core 2.2GHZ 128G Memory, with JUNOS-Evolution, Base             |
| JNP10K-RE1-E128-R  | JNP10K-RE1-E128-R  | JNP10K Routing Engine, 10-Core 2.2GHZ 128G Memory, with JUNOS-Evolution, Redundant        |
| JNP10K-RE1-E-BB    | JNP10K-RE1-E-BB    | JNP10K Routing Engine, 10-Core 2.2GHZ 64G Memory, with JUNOS-Evolution, Base              |
| JNP10K-RE1-ELT     | JNP10K-RE1-ELT     | JNP10K Routing Engine, 10-Core 2.2GHZ 64G Memory, with Limited JUNOS-Evolution            |
| JNP10K-RE1-ELT-BB  | JNP10K-RE1-ELT-BB  | JNP10K Routing Engine, 10-Core 2.2GHZ 64G Memory, with Limited JUNOS-Evolution, Base      |
| JNP10K-RE1-ELT-R   | JNP10K-RE1-ELT-R   | JNP10K Routing Engine, 10-Core 2.2GHZ 64G Memory, with Limited JUNOS-Evolution, Redundant |
| JNP10K-RE1-E-R     | JNP10K-RE1-E-R     | JNP10K Routing Engine, 10-Core 2.2GHZ 64G Memory, with JUNOS-Evolution, Redundant         |
| JNP10K-RE1-LT      | JNP10K-RE1-LT      | JNP10K RE LIMITED JUNOS, SPARE  |
| JNP10K-RE1-LT-BB   | JNP10K-RE1-LT-BB   | JNP10K RE LIMITED JUNOS, BASE   |
| JNP10K-RE1-LT-R    | JNP10K-RE1-LT-R    | JNP10K RE LIMITED JUNOS, REDUNDANT  |
| JNP10K-RE1-R       | JNP10K-RE1-R       | JNP10K Routing Engine, Redundant  |
| JNP10K-RE1-S128    | JNP10K-RE1-S128    | SONIC on Doon RE 128G non secure boot   |

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| JNP10K-RE1-S128-BB | JNP10K-RE1-S128-BB | RE1 SONiC non secure base system  |
| JNP10K-RE2-E128    | JNP10K-RE2-E128    | JNP10K Routing Engine, 10-Core 2.2GHZ 128G Memory, TPM 2.0 with JUNOS-Evolution, Spare                    |
| JNP10K-RE2-E128-BB | JNP10K-RE2-E128-BB | JNP10K Routing Engine, 10-Core 2.2GHZ 128G Memory, TPM 2.0 with JUNOS-Evolution, Base                     |
| JNP10K-RE2-E128-R  | JNP10K-RE2-E128-R  | JNP10K Routing Engine, 10-Core 2.2GHZ 128G Memory, TPM 2.0 with JUNOS-Evolution, Redundant                |
| JNP204-CHAS        | JNP204-CHAS        | Universal Chassis, 1RU  |
| JNP204-CHAS-BB     | JNP204-CHAS-BB     | JNP204 Universal Chassis Base   |
| JNP-2200W-AC2      | JNP-2200W-AC2      | Juniper AC Power Supply, 2200W, front-to-back airflow, Spare  |
| JNP-2200W-AC2-BB   | JNP-2200W-AC2-BB   | Juniper AC Power Supply, 2200W, front-to-back airflow, Base   |
| JNP-2200W-DC2      | JNP-2200W-DC2      | Juniper DC Power Supply, 2200W, front-to-back airflow, Spare  |
| JNP-2200W-DC2-BB   | JNP-2200W-DC2-BB   | Juniper DC Power Supply, 2200W, front-to-back airflow, Base   |
| JNP-2400W-DC-AFI   | JNP-2400W-DC-AFI   | Juniper DC Power Supply, 2400W, back-to-front airflow   |
| JNP-25G-AOC-10M    | JNP-25G-AOC-10M    | SFP28, 25GE Active Optical Cable, 10 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab |
| JNP-25G-AOC-15M    | JNP-25G-AOC-15M    | SFP28, 25GE Active Optical Cable, 15 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab |
| JNP-25G-AOC-1M     | JNP-25G-AOC-1M     | SFP28, 25GE Active Optical Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab   |
| JNP-25G-AOC-20M    | JNP-25G-AOC-20M    | SFP28, 25GE Active Optical Cable, 20 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab |
| JNP-25G-AOC-2M     | JNP-25G-AOC-2M     | SFP28, 25GE Active Optical Cable, 2 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab  |
| JNP-25G-AOC-30M    | JNP-25G-AOC-30M    | SFP28, 25GE Active Optical Cable, 30 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab |
| JNP-25G-AOC-3M     | JNP-25G-AOC-3M     | SFP28, 25GE Active Optical Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab  |
| JNP-25G-AOC-5M     | JNP-25G-AOC-5M     | SFP28, 25GE Active Optical Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab  |
| JNP-25G-AOC-7M     | JNP-25G-AOC-7M     | SFP28, 25GE Active Optical Cable, 7 meters, Standard Temperature (0 through 70 DEGREE C), 1.5W, Pull Tab  |
| JNP-2700W-AC-AFI   | JNP-2700W-AC-AFI   | Juniper AC Power Supply, 2700W, back-to-front airflow   |
| JNP-3000W-AC-AFO   | JNP-3000W-AC-AFO   | Juniper AC Power Supply, 3000W, front-to-back airflow   |
| JNP-3000W-DC-AFO   | JNP-3000W-DC-AFO   | Juniper DC Power Supply, 3000W, front-to-back airflow   |
| JNP304-CHAS        | JNP304-CHAS        | JNP304 Chassis  |
| JNP304-CHAS-BB     | JNP304-CHAS-BB     | JNP304 Chassis Base unit  |

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| JNP304-LMIC16-BASE | JNP304-LMIC16-BASE | JNP304 1.6T Combo LMIC 16x100G / 4x400G   |
| JNP304-RE-BB       | JNP304-RE-BB       | JNP304 Routing Engine, BASE   |
| JNP304-RE-LT-BB    | JNP304-RE-LT-BB    | JNP304 Routing Engine, Limited, Base  |
| JNP304-RE-LT-R     | JNP304-RE-LT-R     | JNP304 Routing Engine, Limited REDUNDANT  |
| JNP304-RE-LT-S     | JNP304-RE-LT-S     | JNP304 Routing Engine, Limited, Spare   |
| JNP304-RE-R        | JNP304-RE-R        | JNP304 Routing Engine, REDUNDANT  |
| JNP304-RE-S        | JNP304-RE-S        | JNP304 Routing Engine, Sapre  |
| JNP-3KW-AC-AFO-BB  | JNP-3KW-AC-AFO-BB  | Juniper AC Power Supply, 3000W, front-to-back airflow                                     |
| JNP-3KW-DC-AFO-BB  | JNP-3KW-DC-AFO-BB  | Juniper DC Power Supply, 3000W, front-to-back airflow                                     |
| JNP-40G-AOC-10M    | JNP-40G-AOC-10M    | QSFP+, 40GE Active Optical Cable, 10 meters, Standard Temperature (0 through 70 DEGREE C) |
| JNP-40G-AOC-15M    | JNP-40G-AOC-15M    | QSFP+, 40GE Active Optical Cable, 15 meters, Standard Temperature (0 through 70 DEGREE C) |
| JNP-40G-AOC-1M     | JNP-40G-AOC-1M     | QSFP+, 40GE Active Optical Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C)   |
| JNP-40G-AOC-20M    | JNP-40G-AOC-20M    | QSFP+, 40GE Active Optical Cable, 20 meters, Standard Temperature (0 through 70 DEGREE C) |
| JNP-40G-AOC-30M    | JNP-40G-AOC-30M    | QSFP+, 40GE Active Optical Cable, 30 meters, Standard Temperature (0 through 70 DEGREE C) |
| JNP-40G-AOC-3M     | JNP-40G-AOC-3M     | QSFP+, 40GE Active Optical Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C)  |
| JNP-40G-AOC-5M     | JNP-40G-AOC-5M     | QSFP+, 40GE Active Optical Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C)  |
| JNP-40G-AOC-7M     | JNP-40G-AOC-7M     | QSFP+, 40GE Active Optical Cable, 7 meters, Standard Temperature (0 through 70 DEGREE C)  |
| JNP48Y8C-CHAS      | JNP48Y8C-CHAS      | Chassis spare for QFX5120-48Y and EX4650-48Y switches                                     |
| JNP5700-CHAS       | JNP5700-CHAS       | 5RU QFX5K base Chassis with 8 vertical slots  |
| JNP5700-CHAS-BB    | JNP5700-CHAS-BB    | JNP5700 Chassis for ACX7509   |
| JNP5700-FAN        | JNP5700-FAN        | Fans used in QFX/ACX 5RU 8-slot chassis   |
| JNP5700-FAN-BB     | JNP5700-FAN-BB     | ACX7509 FAN Tray, Back to Front   |
| JNP6360-CHAS       | JNP6360-CHAS       | JNP6360 chassis spare   |
| JNP-650W-AC-SSRHE  | JNP-650W-AC-SSRHE  | AC Power supply unit for SSR1300 and SSR1400  |
| JNP7100-32C-CHAS   | JNP7100-32C-CHAS   | JNP7100 Chassis with 32 QSFP28 / 4 QSFP56-DD multi-rate ports                             |

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| JNP7100-32C-L-CHAS | JNP7100-32C-L-CHAS | JNP7100 Chassis with 32 QSFP28 / 4 QSFP56-DD multi-rate ports and Limited Junos EVO  |
| JNP7100-48L-CHAS   | JNP7100-48L-CHAS   | JNP7100 Chassis with 48 SFP56 / 6 QSFP56-DD multi-rate ports. This will normally be ordered for Spares.                          |
| JNP7100-48L-L-CHAS | JNP7100-48L-L-CHAS | JNP7100 Chassis with 48 QSFP-DD / 6 QSFP56-DD multi-rate ports and Limited Junos EVO. This will normally be ordered for Spares . |
| JNP7100-FAN1RU-AI  | JNP7100-FAN1RU-AI  | 7100 Back-to-Front Fan Tray, 1RU   |
| JNP7100-FAN1RU-AO  | JNP7100-FAN1RU-AO  | 7100 Front-to-Back Fan Tray, 1RU   |
| JNP-920W-AC-PS     | JNP-920W-AC-PS     | FRU:920W AC Replacement Power Supply. Compatible with JSA7800. Cannot mix DC & AC in the same system.                            |
| JNP-AIRFLTR-3RU    | JNP-AIRFLTR-3RU    | JNP10003 Universal Chassis Air filter  |
| JNP-FAN-1RU        | JNP-FAN-1RU        | Universal Fan Tray, 1RU  |
| JNP-FAN-1RU-BB     | JNP-FAN-1RU-BB     | Universal Fan, 1RU, Base   |
| JNP-FAN2-1RU       | JNP-FAN2-1RU       | Fan Tray for JNP10001-36MR platform  |
| JNP-FAN-2RU        | JNP-FAN-2RU        | Universal Fan, 2RU   |
| JNP-FAN-2RU-BB     | JNP-FAN-2RU-BB     | Universal Fan, 2RU, Base   |
| JNP-FAN-3RU        | JNP-FAN-3RU        | Universal Fan Tray, 3RU  |
| JNP-FAN-3RU-BB     | JNP-FAN-3RU-BB     | Universal Fan, 3RU, Base   |
| JNP-FAN-SSRHE      | JNP-FAN-SSRHE      | Fan tray unit for SSR1300, SSR1400, and SSR1500  |
| JNP-FPC-16C        | JNP-FPC-16C        | Universal JNP 16X100G linecard for QFX700 chassis.   |
| JNP-FPC-20Y        | JNP-FPC-20Y        | JNP5700 20X1GE/20X10GE/25X25GE/25X50GE LINE CARD, SPARE  |
| JNP-FPC-4CD        | JNP-FPC-4CD        | Universal JNP 4X400G linecard for QFX700 chassis.  |
| JNP-MIC1           | JNP-MIC1           | 12x100G/12x40G/48x10G Universal MIC  |
| JNP-MIC1-MACSEC    | JNP-MIC1-MACSEC    | 12x100G/12x40G/48x10G Universal MACSEC MIC   |
| JNP-PWR1100-DC     | JNP-PWR1100-DC     | Universal DC Power Supply, 1100W   |
| JNP-PWR1100-DC-BB  | JNP-PWR1100-DC-BB  | Universal DC Power Supply, 1100W, Configured in Base   |
| JNP-PWR1100-DC-R   | JNP-PWR1100-DC-R   | Universal DC Power Supply, 1100W, Redundant  |
| JNP-PWR1600-AC     | JNP-PWR1600-AC     | Universal AC Power Supply, 1600W   |
| JNP-PWR1600-AC-BB  | JNP-PWR1600-AC-BB  | Universal AC Power Supply, 1600W, Configured in base   |

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| JNP-PWR1600-AC-R   | JNP-PWR1600-AC-R   | Universal AC Power Supply, 1600W, Redundant  |
| JNP-PWR2200-AC     | JNP-PWR2200-AC     | Universal AC Power Supply, 2200W   |
| JNP-PWR2200-AC-BB  | JNP-PWR2200-AC-BB  | Universal AC Power Supply, 2200W, Base   |
| JNP-PWR2200-DC     | JNP-PWR2200-DC     | Universal DC Power Supply, 2200W   |
| JNP-PWR2200-DC-BB  | JNP-PWR2200-DC-BB  | Universal DC Power Supply, 2200W, Base   |
| JNP-PWR2200-HV     | JNP-PWR2200-HV     | Universal HV Power Supply, 2200W   |
| JNP-QSFP-100G-BXSR | JNP-QSFP-100G-BXSR | QSFP28, 100GBASE-BXSR (Bi-directional), MMF OM3 70 meters and OM4 100 meters, Standard Temperature (0 through 70 DEGREE C), Duplex L |
| JNP-QSFP-100G-CWDM | JNP-QSFP-100G-CWDM | QSFP28 100GBase-CWDM4 Optics for up to 2km transmission over serial SMF  |
| JNP-QSFP-100G-LR4  | JNP-QSFP-100G-LR4  | QSFP28 100GBase-L4 Optics for up to 10km transmission over serial SMF  |
| JNP-QSFP-100G-PSM4 | JNP-QSFP-100G-PSM4 | QSFP28, 100GBASE-PSM4, SMF 500 meters, Standard Temperature (0 through 70 DEGREE C), MPO-12 APC connector                            |
| JNP-QSFP-100G-SR4  | JNP-QSFP-100G-SR4  | QSFP28 100GBase-SR4 Optics for up to 100m transmission over parallel MMF   |
| JNP-QSFP-40GE-ER4  | JNP-QSFP-40GE-ER4  | QSFP+, 40GBASE-ER4 for Switching Platforms, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector             |
| JNP-QSFP-40GE-IR4  | JNP-QSFP-40GE-IR4  | QSFP+, 40GBASE-IR4, SMF 2 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                                      |
| JNP-QSFP-40G-LR4   | JNP-QSFP-40G-LR4   | QSFP+, 40GBASE-LR4 for Switching Platforms, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector             |
| JNP-QSFP-40G-LX4   | JNP-QSFP-40G-LX4   | QSFP+, 40GBASE-LX4 for Switching Platforms, SMF 2 km or MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DE |
| JNP-QSFP-4X10GE-IR | JNP-QSFP-4X10GE-IR | QSFP+, 4x10GE IR (Juniper Networks proprietary), SMF 1.4 km, Standard Temperature (0 through 70 DEGREE C), MPO-12 APC connector      |
| JNP-QSFP-4X10GE-LR | JNP-QSFP-4X10GE-LR | QSFP+, 4x10GBASE-LR for Switching Platforms, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), MPO-12 APC connector           |
| JNP-QSFP-AOCBO-10M | JNP-QSFP-AOCBO-10M | QSFP+ to SFP+, 40GE to 4x10GE Active Optical Cable for Breakout, 10 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, |
| JNP-QSFP-AOCBO-1M  | JNP-QSFP-AOCBO-1M  | QSFP+ to SFP+, 40GE to 4x10GE Active Optical Cable for Breakout, 1 meter, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM, P |
| JNP-QSFP-AOCBO-3M  | JNP-QSFP-AOCBO-3M  | QSFP+ to SFP+, 40GE to 4x10GE Active Optical Cable for Breakout, 3 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM,  |
| JNP-QSFP-AOCBO-5M  | JNP-QSFP-AOCBO-5M  | QSFP+ to SFP+, 40GE to 4x10GE Active Optical Cable for Breakout, 5 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM,  |
| JNP-QSFP-AOCBO-7M  | JNP-QSFP-AOCBO-7M  | QSFP+ to SFP+, 40GE to 4x10GE Active Optical Cable for Breakout, 7 meters, Standard Temperature (0 through 70 DEGREE C), 3.5W, DDM,  |
| JNP-QSFP-DAC-10MA  | JNP-QSFP-DAC-10MA  | QSFP+, 40GE Active Direct Attach Copper Cable, 10 meters, Industrial Temperature (-40 through 85 DEGREE C), 0.058W, 28 AWG           |
| JNP-QSFP-DAC-5M    | JNP-QSFP-DAC-5M    | QSFP+, 40GE Direct Attach Copper Cable, 5 meters, Industrial Temperature (-40 through 85 DEGREE C), 0.015W, 26 AWG                   |



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| JNP-QSFP-DAC-5MA   | JNP-QSFP-DAC-5MA   | QSFP+, 40GE Active Direct Attach Copper Cable, 5 meters, Industrial Temperature (-40 through 85 DEGREE C), 0.015W, 30 AWG              |
| JNP-QSFP-DAC-7MA   | JNP-QSFP-DAC-7MA   | QSFP+, 40GE Active Direct Attach Copper Cable, 7 meters, Industrial Temperature (-40 through 85 DEGREE C), 0.015W, 30 AWG              |
| JNP-QSFP-DACBO-10M | JNP-QSFP-DACBO-10M | QSFP+ to SFP+, 40GE to 4x10GE Active Direct Attach Copper Cable for Breakout, 10 meters, Extended Temperature (-40 through 85 DEGREE   |
| JNP-QSFP-DACBO-5MA | JNP-QSFP-DACBO-5MA | QSFP+ to SFP+, 40GE to 4x10GE Active Direct Attach Copper Cable for Breakout, 5 meters, Extended Temperature (-40 through 85 DEGREE    |
| JNP-QSFP-DACBO-7MA | JNP-QSFP-DACBO-7MA | QSFP+ to SFP+, 40GE to 4x10GE Active Direct Attach Copper Cable for Breakout, 7 meters, Extended Temperature (-40 through 85 DEGREE    |
| JNP-QSFPP-40G-BXSR | JNP-QSFPP-40G-BXSR | QSFP+, 40GBASE-BXSR (Bi-directional), MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC   |
| JNP-SFP-10G-BX10D  | JNP-SFP-10G-BX10D  | SFP+, 10GE BX10D (Bi-directional), Tx 1330nm, Rx 1270nm, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connect    |
| JNP-SFP-10G-BX10U  | JNP-SFP-10G-BX10U  | SFP+, 10GE BX10U (Bi-directional), Tx 1270nm, Rx 1330nm, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connect    |
| JNP-SFP-10G-BX40D  | JNP-SFP-10G-BX40D  | SFP+, 10GE BX40D (Bi-directional), Tx 1330 nm, Rx 1270 nm, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Simplex LC connect |
| JNP-SFP-10G-BX40U  | JNP-SFP-10G-BX40U  | SFP+, 10GE BX40U (Bi-directional), Tx 1270 nm, Rx 1330 nm, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Simplex LC connect |
| JNP-SFP-25G-DAC-1M | JNP-SFP-25G-DAC-1M | SFP28, 25GE Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.5W, 30 AWG                            |
| JNP-SFP-25G-DAC-3M | JNP-SFP-25G-DAC-3M | SFP28, 25GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.5W, 26 AWG                           |
| JNP-SFP-25G-DAC-5M | JNP-SFP-25G-DAC-5M | SFP28, 25GE Direct Attach Copper Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.5W, 26 AWG                           |
| JNP-SFP-25G-LR     | JNP-SFP-25G-LR     | SFP28 25GBase-LR Ethernet Optics for 10km transmission on SMF  |
| JNP-SFP-25G-SR     | JNP-SFP-25G-SR     | 25GBASE-SR Module supports a link length of 70m on MMF (OM3) and up to 100m on MMF (OM4).  |
| JNP-SFP-DAC-2M     | JNP-SFP-DAC-2M     | SFP+, 10GE Direct Attach Copper Cable, 2 meters, Standard Temperature (0 through 70 DEGREE C), 0.57W, 30 AWG                           |
| JNP-SFPP-10GE-T    | JNP-SFPP-10GE-T    | SFP+, 100/1000/10GBASE-T Multi-Rate Transceiver, Cat5e/Cat 6a 30 meters, Standard Temperature (0 through 70 DEGREE C), RJ-45 connect   |
| JNP-SFP-VDSL2      | JNP-SFP-VDSL2      | SFP, 1GE ADSL2/VDSL2 for NFX Platforms, Cat 5e 3 km, Extended Temperature (-20 through 85 DEGREE C), RJ-45 connector                   |
| JNP-SPC3           | JNP-SPC3           | Services Processing Card, SPC3   |
| JNP-SPC3-BB        | JNP-SPC3-BB        | Services Processing Card, SPC3, included in base   |
| JNP-SSD-M2-1TB     | JNP-SSD-M2-1TB     | Universal 1T M.2 SSD,in Carrier,No Junos   |
| JNP-SSD-M2-800GB   | JNP-SSD-M2-800GB   | Universal 800GB M.2 SSD  |
| JPSU-1050-C-AC-AFO | JPSU-1050-C-AC-AFO | 1050W Compact AC AFO power supply for EX4400 switches  |
| JPSU-1100-AC-AFO   | JPSU-1100-AC-AFO   | EX4300, 1100W AC Power Supply (Power Cord needs to be ordered separately), PSU-Side Airflow Exhaust                                    |

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| JPSU-1100W-AC-AFI  | JPSU-1100W-AC-AFI  | PSU,1100W,AC,12V Output, FRU, Back to Front Airflow   |
| JPSU-1100W-AC-AFO  | JPSU-1100W-AC-AFO  | PSU,1100W,AC,12V Output, FRU, Front to Back Airflow   |
| JPSU-1100W-DC-AFI  | JPSU-1100W-DC-AFI  | PSU,1100W,DC,12V Output, FRU, Back to Front Airflow   |
| JPSU-1100W-DC-AFO  | JPSU-1100W-DC-AFO  | PSU,1100W,DC,12V Output, FRU, Front to Back Airflow   |
| JPSU-1400-AC-AFO   | JPSU-1400-AC-AFO   | 1400W AC power supply. AFO.   |
| JPSU-150-AC-AFI    | JPSU-150-AC-AFI    | EX4100 and EX3400 150W DC Power Supply, Front-to-Back airflow (power cord needs to be ordered separately)         |
| JPSU-150-AC-AFO    | JPSU-150-AC-AFO    | EX4100 and EX3400 150W AC Power Supply, Front-to-back airflow (power cord needs to be ordered separately)         |
| JPSU-150-DC-AFO    | JPSU-150-DC-AFO    | EX3400 150W DC Power Supply, front-to-back airflow (power cord needs to be ordered separately)                    |
| JPSU-1600-C-AC-AFO | JPSU-1600-C-AC-AFO | 1600W Compact AC AFO power supply for EX4400 switches   |
| JPSU-1600W-1UACAFI | JPSU-1600W-1UACAFI | QFX5220-32CD 1600W 1U AC PSU AFI  |
| JPSU-1600W-1UACAFO | JPSU-1600W-1UACAFO | QFX5220-32CD 1600W 1U AC PSU AFO  |
| JPSU-1600W-1UDCAFI | JPSU-1600W-1UDCAFI | QFX5220-32CD 1600W 1U DC PSU AFI  |
| JPSU-1600W-1UDCAFO | JPSU-1600W-1UDCAFO | QFX5220-32CD 1600W 1U DC PSU AFO  |
| JPSU-1600W-AC-AFO  | JPSU-1600W-AC-AFO  | 1600W AC PSU front-to-back airflow  |
| JPSU-1600W-DC-AFO  | JPSU-1600W-DC-AFO  | 1600W DC PSU front-to-back airflow  |
| JPSU-2000-C-AC-AFO | JPSU-2000-C-AC-AFO | 2000W Compact AC AFO power supply for EX4400-48MXP and EX4400-48XP switches                                       |
| JPSU-350-AC-AFI    | JPSU-350-AC-AFI    | EX4300, 350W AC Power Supply with Airflow-In (Power Cord needs to be ordered separately), PSU-Side Airflow Intake |
| JPSU-350-AC-AFO    | JPSU-350-AC-AFO    | EX4300, 350W AC Power Supply (Power Cord needs to be ordered separately), PSU-Side Airflow Exhaust                |
| JPSU-400W-AC       | JPSU-400W-AC       | Juniper Power Supply Unit, 400W AC, Slim 1RU Form Factor  |
| JPSU-400W-AC-AFI   | JPSU-400W-AC-AFI   | 400W Alternating Current, Power Supply Unit, FRU  |
| JPSU-400W-DC-AFI   | JPSU-400W-DC-AFI   | 400W Direct Current, Power Supply Unit, FRU   |
| JPSU-450W-AC       | JPSU-450W-AC       | Juniper Power Supply Unit, 450W AC, 1 RU Form Factor  |
| JPSU-550-C-AC-AFI  | JPSU-550-C-AC-AFI  | 550W compact AC AFI power supply for EX4400 switches  |
| JPSU-550-C-AC-AFO  | JPSU-550-C-AC-AFO  | 550W compact AC AFO power supply for EX4400 switches  |
| JPSU-550-C-DC-AFI  | JPSU-550-C-DC-AFI  | 550W compact DC AFI power supply for EX4400 switches  |

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| JPSU-550-C-DC-AFO  | JPSU-550-C-DC-AFO  | 550W Compact DC AFO power supply for EX4400 switches   |
| JPSU-550-DC-AFI    | JPSU-550-DC-AFI    | EX4300, 550W DC Power Supply Airflow-In (Power Cord needs to be ordered separately), PSU-Side Airflow Intake |
| JPSU-550-DC-AFO    | JPSU-550-DC-AFO    | EX4300, 550W DC Power Supply (Power Cord needs to be ordered separately), PSU-Side Airflow Exhaust           |
| JPSU-600-AC-AFO    | JPSU-600-AC-AFO    | EX3400 600W AC Power Supply, front-to-back airflow (power cord needs to be ordered separately)               |
| JPSU-650W-AC-AFI   | JPSU-650W-AC-AFI   | Juniper 650W AC Power Supply (FRU Side to Port Side Air Flow)  |
| JPSU-650W-AC-AFO   | JPSU-650W-AC-AFO   | Juniper 650W AC Power Supply (Port Side to FRU Side Air Flow)  |
| JPSU-650W-AC-AI    | JPSU-650W-AC-AI    | Juniper 650W AC Power Supply (FRU Back to Front Air Flow)  |
| JPSU-650W-AC-AO    | JPSU-650W-AC-AO    | JNP204 AC power supply air flow out  |
| JPSU-650W-AC-AO-BB | JPSU-650W-AC-AO-BB | JNP204 AC power supply air flow out Base   |
| JPSU-650W-DC-AFI   | JPSU-650W-DC-AFI   | Juniper 650W DC Power Supply (FRU Side to Port Side Air Flow)  |
| JPSU-650W-DC-AFO   | JPSU-650W-DC-AFO   | Juniper 650W DC Power Supply (Port Side to FRU Side Air Flow)  |
| JPSU-650W-DC-AFO-B | JPSU-650W-DC-AFO-B | JNP204 DC power supply air flow out Base   |
| JPSU-650W-DC-F-AFO | JPSU-650W-DC-F-AFO | Juniper 650W DC Power Supply for Felming (Port Side to FRU Side Air Flow)                                    |
| JPSU-715-AC-AFO    | JPSU-715-AC-AFO    | EX4300, 715W AC Power Supply (Power Cord needs to be ordered separately), PSU-Side Airflow Exhaust           |
| JPSU-850W-AC-AFI   | JPSU-850W-AC-AFI   | QFX5100 850 Watt AC PSU, Back to Front Airflow   |
| JPSU-850W-AC-AFO   | JPSU-850W-AC-AFO   | QFX5100 850 Watt AC PSU, Front to Back airflow   |
| JPSU-850W-DC-AFI   | JPSU-850W-DC-AFI   | QFX5100 850 Watt DC PSU, Back to Front Airflow   |
| JPSU-850W-DC-AFO   | JPSU-850W-DC-AFO   | QFX5100 850 Watt DC PSU, Front to Back airflow   |
| JPSU-850W-HV-AFI   | JPSU-850W-HV-AFI   | QFX5K and other platforms HV 277VAC/380VDC POWER SUPPLY MODULE, Back to Front Airflow                        |
| JPSU-850W-HV-AFO   | JPSU-850W-HV-AFO   | QFX5K and other platforms HV 277VAC/380VDC POWER SUPPLY MODULE, Front to Back Airflow                        |
| JPSU-920-AC-AFO    | JPSU-920-AC-AFO    | EX4100 and EX3400 920W AC Power Supply, Front-to-Back airflow (power cord needs to be ordered separately)    |
| JPSU-H-340W-E-AC   | JPSU-H-340W-E-AC   | AC external PSU for EX hardened switch EX4100-H-12MP-AC  |
| JPSU-H-340W-E-DC   | JPSU-H-340W-E-DC   | DC external PSU for EX hardened switch EX4100-H-12MP-DC  |
| JRR200-CHAS        | JRR200-CHAS        | Chassis; no PSU and no Fan, JunOS Software Base Included   |
| JSA3800-5800-HDD   | JSA3800-5800-HDD   | JSA 3800 & 5800 FRU HDD: 2.5" 900GB SAS 6Gb/s 10K RPM  |

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| JSA3800-AC-PS      | JSA3800-AC-PS      | JSA3800 FRU 700W AC Replacement Power Supply (Ships with redundant AC; JSA3800-DC-PS is a FRU option; cannot mix DC & AC in the same) |
| JSA3800-BSE        | JSA3800-BSE        | JSA3800 Base Appliance  |
| JSA3800-DC-PS      | JSA3800-DC-PS      | JSA3800 FRU 650W DC Replacement Power Supply (Ships with redundant JSA3800-AC-PS; JSA3800-DC-PS is a FRU option; cannot mix DC & AC)  |
| JSA5800-AC-PS      | JSA5800-AC-PS      | JSA5800 FRU 920W AC Replacement Power Supply (Ships with redundant AC; JSA5800-DC-PS is a FRU option; cannot mix DC & AC in the same) |
| JSA5800-BSE        | JSA5800-BSE        | JSA5800 Base Appliance  |
| JSA5800-DC-PS      | JSA5800-DC-PS      | JSA5800 FRU 1010W DC Replacement Power Supply (Ships with redundant JSA5800-AC-PS; JSA5800-DC-PS is a FRU option; cannot mix DC & AC) |
| JSA7500-BSE        | JSA7500-BSE        | Junos Secure Analytics HW Appliance - Very High End.  |
| JSA7800-CHAS       | JSA7800-CHAS       | JSA7800 chassis & Built-in Fan installed,Power supply & HDD not included  |
| JSA7800-HDD        | JSA7800-HDD        | JSA 7800 FRU HDD: 2-TB 2.5" SAS HDD, RAID6  |
| JSU-SSD-MLC-100    | JSU-SSD-MLC-100    | Juniper Storage Unit, SSD, MLC, 100GB   |
| JSU-SSD-MLC-120    | JSU-SSD-MLC-120    | Juniper Storage Unit, SSD, MLC, 120GB   |
| LWC                | LWC                | JNPR Service Platform, Light Weight Collector   |
| M320-FPC2-E3       | M320-FPC2-E3       | Type 2 FPC for M320, Enhanced Version 3 using I chip  |
| ME-X1              | ME-X1              | Mist Edge Appliance, 2x1Gbps, Supports 500 Access Points  |
| ME-X10             | ME-X10             | Mist Edge Appliance, 4x10GBASE-X (SFP+), Supports 10,000 Access Points, SFP Optics not included                                       |
| ME-X1-M            | ME-X1-M            | Mist Edge Appliance, 4x1Gbps, Supports 500 Access Points  |
| ME-X5              | ME-X5              | Mist Edge Appliance, 2x10GBASE-X (SFP+), Supports 5000 Access Points, SFP Optics not included   |
| ME-X5-M            | ME-X5-M            | Mist Edge Appliance, 4x10GBASE-X (SFP+), Supports 5000 Access Points, SFP. Optics not included  |
| ME-X6              | ME-X6              | Mist Edge Appliance, 4x25GBASE-XX (SFP28), Supports 5000 Access Points, SFP Optics not included                                       |
| MIC3-100G-DWDM     | MIC3-100G-DWDM     | 1 x 100G OTU4 DWDM PIC, DP-QPSK Full C-band Tunable, GFEC, HGFEC, SDFEC; Requires MPC3E or MPC3E-NG; Requires TCFP2-100G-C, sold sep  |
| MIC3-3D-10XGE-SFPP | MIC3-3D-10XGE-SFPP | MIC with 10x10GE SFP+ interface, Optics sold separately.  |
| MIC-3D-10GE-SFP-E  | MIC-3D-10GE-SFP-E  | Pluggable MIC that supports 10 ports of 1G capability.The MIC is capable of MacSec and PTP functionality also.                        |
| MIC-3D-1OC192-XFP  | MIC-3D-1OC192-XFP  | 1 port OC192/STM64 MIC, (Requires a pluggable XFP optics module, Sold separately)   |
| MIC-3D-20GE-SFP    | MIC-3D-20GE-SFP    | 20x10/100/1000 MIC for MX, requires optics sold separately  |
| MIC-3D-20GE-SFP-E  | MIC-3D-20GE-SFP-E  | 20-Port SFP GE MIC with 1588 & MACSEC   |

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| MIC-3D-20GE-SFP-EH | MIC-3D-20GE-SFP-EH | Temp Hardened 20-Port SFP GE MIC with 1588 & MACSEC for MX104  |
| MIC-3D-2XGE-XFP    | MIC-3D-2XGE-XFP    | 2x10G MIC for MX, requires optics sold separately  |
| MIC-3D-40GE-TX     | MIC-3D-40GE-TX     | 40x10/100/1000 RJ-45 full height MIC (fixed optics)  |
| MIC-3D-4XGE-XFP    | MIC-3D-4XGE-XFP    | 4x10G MIC for MX, requires optics sold separately. Only supported on MX-MPC2, MPC2E-3D-NG, MPC2E-3D-NG-Q, MPC3E-3D-NG and MPC3E-3D-N |
| MIC-3D-8DS3-E3     | MIC-3D-8DS3-E3     | 8 port non-channelized DS3 / non-channelized E3 MIC, 75 ohm miniSMB (Requires CBL-DS3-E3-M-S to be ordered separately); Requires S-M |
| MIC-4COC3-2COC12-G | MIC-4COC3-2COC12-G | Low density MultiRate MIC (RoHS 6/6), 4 port channelized OC3 / 2 port channelized OC12 (down to DS0) MIC, Requires a pluggable SFP o |
| MIC6-100G-CFP2     | MIC6-100G-CFP2     | MPC6 MIC w/2 port 100GE CFP2 with OTN  |
| MIC6-100G-CXP      | MIC6-100G-CXP      | MPC6 MIC w/4 port 100GE CXP  |
| MIC6-10G           | MIC6-10G           | MPC6 MIC w/24 port 10GE SFPP   |
| MIC6-10G-OTN       | MIC6-10G-OTN       | MPC6 MIC w/24 port 10GE SFPP with OTN  |
| MIC-8COC3-4COC12-G | MIC-8COC3-4COC12-G | High density MultiRate MIC (RoHS 6/6), 8 port channelized OC3 / 4 port channelized OC12 (down to DS0) MIC, Requires a pluggable SFP  |
| MIC-MACSEC-20GE    | MIC-MACSEC-20GE    | Multi rate MACsec MIC that supports either 20x1GE SFP or 2x10G SFPP ports. This MIC has 256b AES. This plugs in to MX80/MX104/MPC1E/ |
| MIC-MACSEC-MRATE   | MIC-MACSEC-MRATE   | 8x100G/12x40G/48x10G MACSEC MIC for MX2K   |
| MIC-MRATE          | MIC-MRATE          | 12 x QSFP+/QSFP28 multirate port interface card. 8 ports out of 12 support QSFP28. Optics sold separately.                           |
| MPC10E-10C-X       | MPC10E-10C-X       | 10 x QSFP28/QSFP56-DD multirate port line card.Optics sold separately.   |
| MPC10E-15C-X       | MPC10E-15C-X       | 15 x QSFP28/QSFP56-DD multirate port line card.Optics sold separately.   |
| MPC2E-3D-NG        | MPC2E-3D-NG        | Next-Gen MPC2E, Port Queue, MX   |
| MPC2E-3D-NG-Q      | MPC2E-3D-NG-Q      | Next-Gen MPC2E, Rich Queue, MX   |
| MPC-3D-16XGE-SFPP  | MPC-3D-16XGE-SFPP  | 16x10GE line card, price includes full scale L2/L2.5 and reduced scale L3 features; requires SFPP optics sold separately             |
| MPC3E-3D-NG        | MPC3E-3D-NG        | Next-Gen MPC3E, Port Queue, MX   |
| MPC3E-3D-NG-Q      | MPC3E-3D-NG-Q      | Next-Gen MPC3E, Rich Queue, MX   |
| MPC4E-3D-2CGE-8XGE | MPC4E-3D-2CGE-8XGE | MPC4E with 2x100GE and 8x10GE ports. Price includes full scale L2/L2.5 and reduced scale L3 features. Optics sold separately.        |
| MPC4E-3D-32XGE-SX  | MPC4E-3D-32XGE-SX  | MPC4E, 32XGE-SFPP, MXaaFW  |
| MPC5E-100G10G      | MPC5E-100G10G      | MPC5E-100G10G MPC, price includes full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB, up to 6M routes in the  |
| MPC5E-40G10G       | MPC5E-40G10G       | MPC5E-40G10G MPC, price includes, full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB, up to 6M routes in the  |

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| MPC5EQ-100G10G     | MPC5EQ-100G10G        | MPC5EQ-100G10G MPC, price includes, HQOS, 1 million queues, full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FI    |
| MPC5EQ-40G10G      | MPC5EQ-40G10G         | MPC5EQ-40G10G MPC, price includes, HQOS, 1 million queues, full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB    |
| MPC7E-10G          | MPC7E-10G             | 40 x 10GE SFP + port line card, price includes full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB, up to 6M r    |
| MPC7E-10G-RTU      | MPC7E-10G-RTU         | 40 x 10GE SFP + port line card, price includes full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB, up to 6M r    |
| MPC7E-10G-SX       | MPC7E-10G-SX          | MPC7E, 40X10GE SFPP, MXaaFW   |
| MPC7E-MRATE        | MPC7E-MRATE           | 12x QSFP+/QSFP28 multirate port line card, includes full scale L2/L2.5 features, reduced scale L3, up to 2M routes in FIB, up to 6M rou |
| MPC7E-MRATE-RTU    | MPC7E-MRATE-RTU       | 12xQSFP+/QSFP28 multirate port line card, full scale L2/L2.5 features, reduced scale L3, up to 2M routes in FIB, up to 6M routes in RI  |
| MPCE-3D-16XGE-SFPP | MPCE-3D-16XGE-SFPP    | Enhanced High Performance Line Card on MX with 16 Ports of 10 Gigabit Ethernet Ports, Diablo, Lamborghini                               |
| MPC-SEPTUM-S       | MPC-SEPTUM-S          | Removable MPC septum to for 1/2 height MIC, Spare   |
| MS-MIC-16G         | MS-MIC-16G            | Multiservice Services MIC, 16G of Memory. Requires JunOs 13.2 or higher   |
| MS-MIC-16G-SX      | MS-MIC-16G-SX         | Multi-Services MIC, 16G, Requires Junos 13.2 or Higher, Spare, MXaaF only   |
| MS-MPC-128G        | MS-MPC-128G           | BNDL, Multi-service Services MPC, 128G of Memory, 4 NPU's Enabled, Bundle of MS-MPC-64G and S-MS-MPC-128G-UPG. Requires JunOs 13.2 or   |
| MS-MPC-128G-BB     | MS-MPC-128G-BB        | MX Services Interface Card, 128G, Configured into base system   |
| MS-MPC-128G-R      | MS-MPC-128G-R         | MX Services Interface Card, 128G, Configured extra  |
| MS-MPC-128G-SX     | MS-MPC-128G-SX        | MX Services Interface Card, 128G, Spare, MXaaF only   |
| MX104-SEPTUM-S     | MX104-SEPTUM-S        | Septum for use with 1/2 height MICs, Spare, MX104   |
| MX150              | MX150                 | MX150 router appliance. That has 12x1G and 2x10G ports, maximum throughput is 20G   |
| MX150-TAA          | MX150-TAA             | MX150 router appliance TAA Version. That has 12x1G and 2x10G ports, maximum throughput is 20G   |
| MX2000-DCLUG4AWG-S | MX2000-DCLUG-4AWG-S   | MX2000 DC Terminal Lug Kit, 4AWG, Qty 20 Lugs, Spares   |
| MX2000-DCLUG6AWG-S | MX2000-DCLUG-6AWG-S   | MX2000 DC Terminal Lug Kit, 6AWG, Qty 20 Lugs, Spares   |
| MX2000-FANTRAY-BB  | MX2000-FANTRAY-BB     | MX2000 Fan Tray, Base Bundle  |
| MX2000-FANTRAY-R   | MX2000-FANTRAY-R      | MX2000 Fan Tray, Redundant Option   |
| MX2000-FANTRAY-S   | MX2000-FANTRAY-S      | MX2000 Fan Tray, Spare  |
| MX2000-LC-ADAPTER  | MX2000-LC-ADAPTER     | MX2000 Line Card Adapter, Spare   |
| MX2000-PDMACDELTAR | MX2000-PDM-AC-DELTA-R | MX2000 3 Phase AC Delta Power Distribution Module, Redundant Option   |

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| MX2000-PDMACDELTAS  | MX2000-PDM-AC-DELTA-S  | MX2000 3 Phase AC Delta Power Distribution Module, Spare       |
| MX2000-PDMACDELTTBB | MX2000-PDM-AC-DELTA-BB | MX2000 3 Phase AC Delta Power Distribution Module, Base Bundle |
| MX2000-PDMACWYE-BB  | MX2000-PDM-AC-WYE-BB   | MX2000 3 Phase AC Power Distribution Module, Base Bundle       |
| MX2000-PDM-ACWYE-R  | MX2000-PDM-AC-WYE-R    | MX2000 3 Phase AC Power Distribution Module, Redundant Option  |
| MX2000-PDM-ACWYE-S  | MX2000-PDM-AC-WYE-S    | MX2000 3 Phase AC Wye Power Distribution Module, Spare         |
| MX2000-PDM-DC-BB    | MX2000-PDM-DC-BB       | MX2000 DC Power Distribution Module, Base Bundle               |
| MX2000-PDM-DC-R     | MX2000-PDM-DC-R        | MX2000 DC Power Distribution Module, Redundant Option          |
| MX2000-PDM-DC-S     | MX2000-PDM-DC-S        | MX2000 DC Power Distribution Module, Spare                     |
| MX2000-PSM-AC-BB    | MX2000-PSM-AC-BB       | MX2000 Power Supply Module, Base Bundle                        |
| MX2000-PSM-AC-R     | MX2000-PSM-AC-R        | MX2000 Power Supply Module, Redundant Option                   |
| MX2000-PSM-AC-S     | MX2000-PSM-AC-S        | MX2000 AC Power Supply Module, Spare                           |
| MX2000-PSM-DC-BB    | MX2000-PSM-DC-BB       | MX2000 DC Power Supply Module, Base Bundle                     |
| MX2000-PSM-DC-R     | MX2000-PSM-DC-R        | MX2000 DC Power Supply Module, Redundant Option                |
| MX2000-PSM-DC-S     | MX2000-PSM-DC-S        | MX2000 DC Power Supply Module, Spare                           |
| MX2000-SFB2-BB      | MX2000-SFB2-BB         | MX2010/MX2020 Switch Fabric Board 2, Base Bundle               |
| MX2000-SFB2-R       | MX2000-SFB2-R          | MX2010/MX2020 Switch Fabric Board 2, Redundant Option          |
| MX2000-SFB2-S       | MX2000-SFB2-S          | MX2010/MX2020 Switch Fabric Board 2, Spare                     |
| MX2000-SFB3-BB      | MX2000-SFB3-BB         | MX2010/MX2020 Switch Fabric Board 3, Base Bundle               |
| MX2000-SFB3-R       | MX2000-SFB3-R          | MX2010/MX2020 Switch Fabric Board 3, Redundant Option          |
| MX2000-SFB3-S       | MX2000-SFB3-S          | MX2010/MX2020 Switch Fabric Board 3, Spare Option              |
| MX2000-SFB-BB       | MX2000-SFB-BB          | MX2000 Switch Fabric Board, Base Bundle                        |
| MX2000-SFB-R        | MX2000-SFB-R           | MX2000 Switch Fabric Board, Redundant Option                   |
| MX2000-SFB-S        | MX2000-SFB-S           | MX2000 Switch Fabric Board, Spare                              |
| MX2008-CRAFT-S      | MX2008-CRAFT-S         | MX2008 Craft panel   |
| MX2008-MNT-TRAY-S   | MX2008-MNT-TRAY-S      | MX2008 Rack Mount Tray, 2 Post, Spare                          |

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| MX2008-SFB2-BB     | MX2008-SFB2-BB       | MX2008 Switch Fabric Board   |
| MX2008-SFB2-R      | MX2008-SFB2-R        | MX2008 Switch Fabric Board, Redundant Option   |
| MX2008-SFB2-S      | MX2008-SFB2-S        | MX2008 Switch Fabric Board, Spare  |
| MX2010-CRAFT-S     | MX2010-CRAFT-S       | Craft Interface Panel, MX2010 Chassis, Spare   |
| MX2020-CRAFT-S     | MX2020-CRAFT-S       | Craft Interface Panel, MX2020 Chassis, Spare   |
| MX240-FFTRAY-HC-BB | FFANTRAY-MX240-HC-BB | MX240 High Capacity fantray, configurable option in base bundle  |
| MX240-FFTRAY-HC-S  | FFANTRAY-MX240-HC-S  | MX240 High Capacity fantray, Spare   |
| MX2K-FANTRAY-OP-BB | MX2K-FANTRAY-OP-BB   | MX2K Optimized Power Fantray, Base Bndl  |
| MX2K-FANTRAY-OP-S  | MX2K-FANTRAY-OP-S    | MX2K Optimized Power Fantray, Spare  |
| MX2K-MPC11E        | MX2K-MPC11E          | 40 x QSFP28 port line card, price includes full scale L2/L2.5 and reduced scale L3 features. Optics sold separately.                 |
| MX2K-MPC6E         | MX2K-MPC6E           | MPC6E MPC, price includes full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB, up to 6M routes in the RIB, and |
| MX2K-MPC8E         | MX2K-MPC8E           | 960Gbps, 2-slot modular line card, price includes full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB, up to 6 |
| MX2K-MPC9E         | MX2K-MPC9E           | 1.6Tbps, 2-slot modular line card, price includes full scale L2/L2.5, reduced scale L3 features, up to 2M routes in the FIB, up to 6 |
| MX2K-MPC9E-RTU     | MX2K-MPC9E-RTU       | 1.6Tbps, 2-slot modular line card, includes full scale L2/L2.5, up to 2M routes in the FIB, up to 6M routes in the RIB, and up to 32 |
| MX2K-PDM-AC-1PH-BB | MX2K-PDM-AC-1PH-BB   | MX2K 1 Phase AC Power Dist Module, Base  |
| MX2K-PDM-AC-1PH-R  | MX2K-PDM-AC-1PH-R    | MX2K 1 Phase AC Power Dist Module, Redundant   |
| MX2K-PDM-AC-1PH-S  | MX2K-PDM-AC-1PH-S    | MX2K 1 Phase AC Power Dist Module, Spare   |
| MX2K-PDM-DC240V-BB | MX2K-PDM-DC240V-BB   | MX2K High-Voltage DC Power Distribution Module supporting 240V DC, Base(China Only)  |
| MX2K-PDM-DC-240V-R | MX2K-PDM-DC-240V-R   | MX2K High-Voltage DC Power Distribution Module supporting 240V DC, Redundant(China Only)   |
| MX2K-PDM-DC-240V-S | MX2K-PDM-DC-240V-S   | MX2K High-Voltage DC Power Distribution Module supporting 240V DC, Spare(China Only)   |
| MX2K-PDM-HV-BB     | MX2K-PDM-HV-BB       | MX2K High-Voltage AC/DC Power Distribution Module supporting 277VAC/380VDC, Base   |
| MX2K-PDM-HV-R      | MX2K-PDM-HV-R        | MX2K High-Voltage AC/DC Power Distribution Module supporting 277VAC/380VDC, Redundant  |
| MX2K-PDM-HV-S      | MX2K-PDM-HV-S        | MX2K High-Voltage AC/DC Power Distribution Module supporting 277VAC/380VDC, Spare  |
| MX2K-PDM-OP-AC-BB  | MX2K-PDM-OP-AC-BB    | MX2K Optimized Power AC PDM, Base Bndl   |
| MX2K-PDM-OP-AC-S   | MX2K-PDM-OP-AC-S     | MX2K Optimized Power AC PDM, Spare   |



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| MX2K-PDM-OP-DC-BB   | MX2K-PDM-OP-DC-BB    | MX2K Optimized Power DC PDM, Base Bndl   |
| MX2K-PDM-OP-DC-S    | MX2K-PDM-OP-DC-S     | MX2K Optimized Power DC PDM, Spare   |
| MX2K-PSM-DC240V-BB  | MX2K-PSM-DC240V-BB   | MX2K 240V DC POWER SUPPLY MODULE, BASE(China Only)   |
| MX2K-PSM-DC-240V-R  | MX2K-PSM-DC-240V-R   | MX2K 240V DC POWER SUPPLY MODULE, REDUNDANT(China Only)  |
| MX2K-PSM-DC-240V-S  | MX2K-PSM-DC-240V-S   | MX2K 240V DC POWER SUPPLY MODULE, SPARE(China Only)  |
| MX2K-PSM-HV-BB      | MX2K-PSM-HV-BB       | MX2K HV 277VAC/380VDC POWER SUPPLY MODULE, BASE  |
| MX2K-PSM-HV-R       | MX2K-PSM-HV-R        | MX2K HV 277VAC/380VDC POWER SUPPLY MODULE, REDUNDANT   |
| MX2K-PSM-HV-S       | MX2K-PSM-HV-S        | MX2K HV 277VAC/380VDC POWER SUPPLY MODULE, SPARE   |
| MX-3D-1X100GE-CXP   | MIC3-3D-1X100GE-CXP  | MIC with 1x100GE CXP interface, Optics sold separately.  |
| MX480-FFTRAY-HC-BB  | FFANTRAY-MX480-HC-BB | MX480 High Capacity fantray, configurable option in base bundle                                      |
| MX480-FFTRAY-HC-S   | FFANTRAY-MX480-HC-S  | MX480 High Capacity fantray, Spare   |
| MX480-PWR2400DC-BB  | PWR-MX480-2400-DC-BB | 2400W DC Power Supply, configurable option in base bundle  |
| MX480-PWR2400-DC-R  | PWR-MX480-2400-DC-R  | 2400W DC Power Supply, Redundant   |
| MX480-PWR2400-DC-S  | PWR-MX480-2400-DC-S  | 2400W DC Power Supply, Spare   |
| MX480-PWR2520AC-BB  | PWR-MX480-2520-AC-BB | 2520W AC Power Supply, configurable option in base bundle (Note: AC power cords are sold separately) |
| MX480-PWR2520-AC-R  | PWR-MX480-2520-AC-R  | 2520W AC Power Supply, Redundant (Note: AC power cords are sold separately)                          |
| MX480-PWR2520-AC-S  | PWR-MX480-2520-AC-S  | 2520W AC Power Supply, Spare (Note: AC power cords are sold separately)                              |
| MX960-CHAS-MISC     | MX960-CHAS-MISC      | MX960 Miscellaneous Chassis Items - Accessory Box, Mounting Hardware, Other Items                    |
| MX960-CH-BP3ECM-S   | CHAS-BP3-MX960-ECM-S | MX960 with installed backplane, Enhanced Cable Manager   |
| MX960-CH-BP-ECM-S   | CHAS-BP-MX960-ECM-S  | MX960 with installed backplane, Enhanced Cable Manager, Spare  |
| MX960-FFILTER-HC-BB | FFILTER-MX960-HC-BB  | MX960 Filter tray for high-capacity fantray, configurable option in base bundle                      |
| MX960-FFTRAY-HC-BB  | FFANTRAY-MX960-HC-BB | MX960 High Capacity fantray (upper or lower), configurable option in base bundle                     |
| MX960-FFTRAY-HC-S   | FFANTRAY-MX960-HC-S  | MX960 High Capacity fantray (upper or lower), Spare  |
| MX960-PSM-5K-AC-BB  | MX960-PSM-5K-AC-BB   | MX960 5000W AC Power Supply Module, BASE   |
| MX960-PSM-5K-AC-R   | MX960-PSM-5K-AC-R    | MX960 5000W AC Power Supply Module, REDUNDANT  |

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| MX960-PSM-5K-AC-S  | MX960-PSM-5K-AC-S      | MX960 5000W AC Power Supply Module, SPARE  |
| MX960-PSM-HV-BB    | MX960-PSM-HV-BB        | MX960 Universal High Voltage AC/DC SUPPLY, BASE  |
| MX960-PSM-HV-R     | MX960-PSM-HV-R         | MX960 Universal High Voltage AC/DC SUPPLY, REDUNDANT   |
| MX960-PSM-HV-S     | MX960-PSM-HV-S         | MX960 Universal High Voltage AC/DC SUPPLY, SPARE   |
| MX960-PWR4100AC-BB | PWR-MX960-4100-AC-BB   | 4100W AC Power Supply, configurable option in base bundle (Note: AC power cords are sold separately)                                 |
| MX960-PWR4100-AC-R | PWR-MX960-4100-AC-R    | 4100W AC Power Supply, Redundant, (Note: AC power cords are sold separately)   |
| MX960-PWR4100-AC-S | PWR-MX960-4100-AC-S    | 4100W AC Power Supply, Spare (Note: AC power cords are sold separately)  |
| MX960-PWR4100DC-BB | PWR-MX960-4100-DC-BB   | 4100W DC Power Supply, configurable option in base bundle  |
| MX960-PWR4100-DC-R | PWR-MX960-4100-DC-R    | 4100W DC Power Supply, Redundant   |
| MX960-PWR4100-DC-S | PWR-MX960-4100-DC-S    | 4100W DC Power Supply, Spare   |
| MX-CFP-2G-100GBLR4 | CFP-GEN2-100GBASE-LR4  | CFP 2nd Generation, 100GBASE-LR4, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                       |
| MXMC3D8OC32OC12ATM | MIC-3D-8OC3-2OC12-ATM  | Multirate 8 x OC3/STM1 or 2 x OC12/STM4 ATM MIC, Ports 0,4 can be configured for OC12 which disables ports 1-3, 5-7, Requires S-MX80 |
| MXMC4COC31COC12CEH | MIC-4COC3-1COC12-CE-H  | Temp Hardened Channelized OC3/OC12 CE MIC for MX104  |
| MXMIC33D1X100GECFP | MIC3-3D-1X100GE-CFP    | MIC with 1x100GE CFP interface, Optics sold separately.  |
| MXMIC33D2X40GEQSFP | MIC3-3D-2X40GE-QSFP    | MIC with 2x40GE QSFP+ interface, Optics sold separately.   |
| MX-MIC3D16CHE1T1CE | MIC-3D-16CHE1-T1-CE    | 16 port channelized T1 / channelized E1 (down to DS0) MIC, RJ48 connector  |
| MXMIC3D16CHE1T1CEH | MIC-3D-16CHE1-T1-CE-H  | Temp Hardened 16-Port RJ45 T1/E1 CE MIC  |
| MXMIC3D4CHOC32CHOC | MIC-3D-4CHOC3-2CHOC12  | Low density multirate MIC - Channelized, 4 port channelized OC3 / 2 port channelized OC12 (down to DS0) MIC, (Requires a pluggable S |
| MXMIC3D4COC31COC12 | MIC-3D-4COC3-1COC12-CE | Multirate Circuit Emulation MIC, 4 port channelized OC3/STM1 (down to DS0) or 1 port channelized OC12/STM4 (down to DS0) CE MIC, Por |
| MXMIC3D4OC3OC121OC | MIC-3D-4OC3OC12-1OC48  | Low density multirate MIC, 4 port non-channelized OC3-OC12 / 1 port non-channelized OC48 MIC, (Requires a pluggable SFP optics modul |
| MXMIC3D8CHOC34CHOC | MIC-3D-8CHOC3-4CHOC12  | High density multirate MIC - Channelized, 8 port channelized OC3 / 4 port channelized OC12 (down to DS0) MIC, (Requires a pluggable  |
| MXMIC3D8OC3OC124OC | MIC-3D-8OC3OC12-4OC48  | High density multirate MIC, 8 port non-channelized OC3-OC12 / 4 port non-channelized OC48 MIC, (Requires a pluggable SFP optics modu |
| MX-MPC1E-3D        | MX-MPC1E-3D            | 1xTrio Chipset Enhanced MPC, port queuing, price includes full scale L2/L2.5 and reduced scale L3 features                           |
| MX-MPC1E-3D-Q      | MX-MPC1E-3D-Q          | 1xTrio Chipset Enhanced MPC, per-IFL HQoS, 128K queues (max 64K egress); price includes full scale L2/L2.5 and reduced scale L3 feat |
| MX-MPC2-3D-EQ      | MX-MPC2-3D-EQ          | MPC with 2xTrio, Enhanced VLAN Queue, 512K Egress (or 256K Ingress/Egress), Neo, MX960   |

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| MX-MPC2E-3D        | MX-MPC2E-3D         | 2xTrio Chipset Enhanced MPC, port queuing, price includes full scale L2/L2.5 and reduced scale L3 features                           |
| MX-MPC2E-3D-EQ     | MX-MPC2E-3D-EQ      | 2xTrio Chipset Enhanced MPC, per-IFL HQoS, 512K queues; price includes full scale L2/L2.5 and reduced scale L3 features              |
| MX-MPC2E-3D-P      | MX-MPC2E-3D-P       | 2xTrio Chipset Enhanced MPC, 1588v2, port queuing, price includes full scale L2/L2.5 and reduced scale L3 features                   |
| MX-MPC2E-3D-Q      | MX-MPC2E-3D-Q       | 2xTrio Chipset Enhanced MPC, per-IFL HQoS, 256K queues (max 128K egress); price includes full scale L2/L2.5 and reduced scale L3 fea |
| MX-MPC3E-3D        | MX-MPC3E-3D         | MPC3 with support for 100GE, 40GE and 10GE interfaces, L2.5 features, Optics sold separately.  |
| MXMPC4E3D32XGESFPP | MPC4E-3D-32XGE-SFPP | MPC4E with 32x10GE SFPP ports. Price includes full scale L2/L2.5 and reduced scale L3 features. Optics Sold Separately.              |
| NFX150-C-S1        | NFX150-C-S1         | NFX150-C, 4 10/100/1000BASE-T Ports, 2 1000BASE-X/10GBASE-X SFP+ Ports, 4 core x86 Processor with QAT, 128 GB SSD, 8 GB Memory (Opti |
| NFX150-C-S1-AA     | NFX150-C-S1-AA      | NFX150-C, 4 10/100/1000BASE-T Ports, 2 1000BASE-X/10GBASE-X Ports, 4 core x86 CPU with QAT, 128 GB SSD, 8 GB Memory. Includes integr |
| NFX150-C-S1-AE     | NFX150-C-S1-AE      | NFX150-C, 4 10/100/1000BASE-T Ports, 2 1000BASE-X/10GBASE-X Ports, 4 core x86 CPU with QAT, 128 GB SSD, 8 GB Memory. Includes integr |
| NFX150-C-S1E-AA    | NFX150-C-S1E-AA     | 4-core ATOM Denverton QAT, 16GB RAM, 100 GB SSD, Desktop, Asia/ANZ, Integrated LTE   |
| NFX150-C-S1E-AE    | NFX150-C-S1E-AE     | 4-core ATOM Denverton QAT, 16GB RAM, 100GB SSD, Desktop, North America/Europe, Integrated LTE  |
| NFX150-S1          | NFX150-S1           | NFX150, 4 10/100/1000BASE-T Ports, 2 1000BASE-X/10GBASE-X SFP+ Ports, 8 core x86 Processor with QAT, 256 GB SSD, 16 GB Memory (Optic |
| NFX150-S1E         | NFX150-S1E          | 8-core ATOM Denverton QAT, 32GB RAM, 200GB SSD, 1RU rack mount   |
| NFX150-S1E-TAA     | NFX150-S1E-TAA      | 8-core ATOM Denverton QAT, 32GB RAM, 200GB SSD, 1RU rack mount, TAA  |
| NFX250-ATT-LS1     | NFX250-ATT-LS1      | AT&T NFX250, 10 10/100/1000BASE-T Ports, 2 100/1000BASE-X SFP Ports, 2 10GBASE-X SFP+ Ports, 4 core x86 Processor, 100 GB SSD, 16 GB |
| NFX250-ATT-S1      | NFX250-ATT-S1       | AT&T NFX250, 10 10/100/1000BASE-T Ports, 2 100/1000BASE-X SFP Ports, 2 10GBASE-X SFP+ Ports, 6 core x86 Processor, 200 GB SSD, 16 GB |
| NFX250-ATT-S2      | NFX250-ATT-S2       | AT&T NFX250, 10 10/100/1000BASE-T ports, 2 100/1000BASE-X SFP ports, 2 10GBASE-X SFP+ ports, 6 core x86 processor, 400 GB SSD, 32 GB |
| NFX250-ATT-S2-TAA  | NFX250-ATT-S2-TAA   | Trade Agreement Act (TAA)-compliant NFX250-ATT-S2, 10 10/100/1000BASE-T ports, 2 100/1000BASE-X SFP ports, 2 10GBASE-X SFP+ ports, 6 |
| NFX250-LS1         | NFX250-LS1          | NFX250, 10 10/100/1000BASE-T Ports, 2 100/1000BASE-X SFP Ports, 2 10GBASE-X SFP+ Ports, 4 core x86 Processor, 100 GB SSD, 16 GB Memo |
| NFX250-S1          | NFX250-S1           | NFX250, 10 10/100/1000BASE-T ports, 2 100/1000BASE-X SFP ports, 2 10GBASE-X SFP+ ports, 6 core x86 processor, 100 GB SSD, 16 GB memo |
| NFX250-S1E         | NFX250-S1E          | NFX250, 10 10/100/1000BASE-T ports, 2 100/1000BASE-X SFP ports, 2 10GBASE-X SFP+ ports, 6 core x86 processor, 200 GB SSD, 16 GB memo |
| NFX250-S2          | NFX250-S2           | NFX250, 10 10/100/1000BASE-T ports, 2 100/1000BASE-X SFP ports, 2 10GBASE-X SFP+ ports, 6 core x86 processor, 400 GB SSD, 32 GB memo |
| NFX250-S2-TAA      | NFX250-S2-TAA       | Trade Agreement Act (TAA)-compliant NFX250-S2, 10 10/100/1000BASE-T ports, 2 100/1000BASE-X SFP ports, 2 10GBASE-X SFP+ ports, 6 cor |
| NFX350-S1-AC-TAA   | NFX350-S1-AC-TAA    | NFX350-S1, 8-core Skylake Xeon-D, QAT, 32GB RAM, 50GB SSD, 2xM2 slots, Dual AC PS capable, single 450W AC PSU, LTE module (2nd PS an |

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| NFX350-S1-CHAS    | NFX350-S1-CHAS    | NFX350-S1, 8-core Skylake Xeon-D, QAT, 32GB RAM, 50GB SSD, 2xM2 slots, No PS or LTE optional modules                        |
| NFX350-S2-CHAS    | NFX350-S2-CHAS    | NFX350-S2, 12-core Skylake Xeon-D, QAT, 64GB RAM, 50GB SSD, 2xM2 slots, No PS or LTE optional modules                       |
| NFX350-S3-CHAS    | NFX350-S3-CHAS    | NFX350-S3, 16-core Skylake Xeon-D, QAT, 128GB RAM, 50GB SSD, 2xM2 slots, No PS or LTE optional modules                      |
| NFX-EM-6T2SFP     | NFX-EM-6T2SFP     | NFX, 6-port 100BASE-T/1000BASE-T + 2-port 1000BASE-X SFP module   |
| NFX-LTE-AA        | NFX-LTE-AA        | NFX, LTE modem with support for 1, 3, 5, 7-8, 18-19, 21, 28, 38-41 LTE bands (for Asia Pacific, Australia, and New Zealand) |
| NFX-LTE-AE        | NFX-LTE-AE        | NFX, LTE modem with support for 1-5, 7-8, 12-13, 30, 25-26, 29-30, 41 LTE bands (for Americas and EMEA)                     |
| NS-ISG-TX2        | NS-ISG-TX2        | NS-ISG I/O Module - Dual Port 10/100/1000 Gigabit Copper  |
| NS-SM-A2-BSE      | NS-SM-A2-BSE      | NSMXpress Appliance Series II Only, 25 devices license  |
| NS-SM-A2-HA       | NS-SM-A2-HA       | NSMXpress HA appliance Series II Only   |
| OC3-4SM_I/O       | OC3-4SM_I/O       | P/C 4 PORT OC3 SM I/O   |
| OSFP-2X400G-DR4   | OSFP-2X400G-DR4   | OSFP800, 2X400G DR4, 500m, Standard Temperature (0 through 70 deg C), MPO-16 connector                                      |
| OSFP-2X400G-DR4-P | OSFP-2X400G-DR4-P | OSFP800, 2X400G DR4, 500m, Standard Temperature (0 through 70 deg C), Dual MPO-12 connector                                 |
| OSFP-2X400G-FR4-P | OSFP-2X400G-FR4-P | OSFP800, 2X400G FR4, 2km, Standard Temperature (0 through 70 deg C), Duplex LC connector                                    |
| OSFP-2X400G-LR4-P | OSFP-2X400G-LR4-P | OSFP800, 2X400G LR4, 10km, Standard Temperature (0 through 70 deg C), Duplex LC connector                                   |
| OSFP-2X400G-VR4-P | OSFP-2X400G-VR4-P | OSFP800, 2x400G DR4, 50m, Standard Temperature (0 through 70 deg C), Dual MPO-12 connector                                  |
| OSFP-800G-AOC-10M | OSFP-800G-AOC-10M | OSFP 800G , Active Optical Cable for Breakout, 10 meter, Standard Temperature (0 through 70 deg C)                          |
| OSFP-800G-AOC-15M | OSFP-800G-AOC-15M | OSFP 800G , Active Optical Cable for Breakout, 15 meter, Standard Temperature (0 through 70 deg C)                          |
| OSFP-800G-AOC-1M  | OSFP-800G-AOC-1M  | OSFP 800G , Active Optical Cable for Breakout, 1 meter, Standard Temperature (0 through 70 deg C)                           |
| OSFP-800G-AOC-20M | OSFP-800G-AOC-20M | OSFP 800G , Active Optical Cable for Breakout, 20 meter, Standard Temperature (0 through 70 deg C)                          |
| OSFP-800G-AOC-30M | OSFP-800G-AOC-30M | OSFP 800G , Active Optical Cable for Breakout, 30 meter, Standard Temperature (0 through 70 deg C)                          |
| OSFP-800G-AOC-3M  | OSFP-800G-AOC-3M  | OSFP 800G , Active Optical Cable for Breakout, 3 meter, Standard Temperature (0 through 70 deg C)                           |
| OSFP-800G-AOC-5M  | OSFP-800G-AOC-5M  | OSFP 800G , Active Optical Cable for Breakout, 5 meter, Standard Temperature (0 through 70 deg C)                           |
| OSFP-800G-AOC-7M  | OSFP-800G-AOC-7M  | OSFP 800G , Active Optical Cable for Breakout, 7 meter, Standard Temperature (0 through 70 deg C)                           |
| OSFP-800G-DAC-1M  | OSFP-800G-DAC-1M  | OSFP 800G, Direct attach cable for Breakout, 1 meter, Standard Temperature (0 through 70 deg C)                             |
| OSFP-800G-DAC-2M  | OSFP-800G-DAC-2M  | OSFP 800G, Direct attach cable for Breakout, 2 meter, Standard Temperature (0 through 70 deg C)                             |

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| P1-PTX-2-100GE-CFP | P1-PTX-2-100GE-CFP | PTX 2 x 100GE PIC  |
| P1-PTX-2-40GE-CFP  | P1-PTX-2-40GE-CFP  | PTX 2 x 40GE PIC   |
| P2-100GE-CFP2      | P2-100GE-CFP2      | PTX 4x100GE, CFP2, PIC for 2nd Generation FPC                                      |
| P2-100GE-OTN       | P2-100GE-OTN       | PTX 4x100GE OTN PIC for 2nd generation FPC   |
| P2-10G-40G-QSFPP   | P2-10G-40G-QSFPP   | PTX 48x10G 12x40G PIC QSFP+ 2nd Gen PIC, GingerAle                                 |
| P3-10-U-QSFP28     | P3-10-U-QSFP28     | PTX 3rd Gen Universal 10x100/10x40/40x10 QSFP28 PIC                                |
| P3-15-U-QSFP28     | P3-15-U-QSFP28     | PTX 15x100GE QSFP28 or 15x40GE, 60x10GE QSFP, Universal PIC for 3rd Generation FPC |
| P3-24-U-QSFP28     | P3-24-U-QSFP28     | PTX 24x40GE or 96x10GE QSFP, Universal PIC for 3rd Generation FPC                  |
| PD-4XGE-XFP        | PD-4XGE-XFP        | Type 4 PIC, 4x10GE, Accepts XFP Optics (sold separately), T640/T1600               |
| PDU2-PTX-AC-D-BB   | PDU2-PTX-AC-D-BB   | PTX High Capacity AC Delta PDU, base bundle  |
| PDU2-PTX-AC-D-R    | PDU2-PTX-AC-D-R    | PTX High Capacity AC Delta PDU, redundant  |
| PDU2-PTX-AC-D-S    | PDU2-PTX-AC-D-S    | PTX High Capacity AC Delta PDU, spare  |
| PDU2-PTX-AC-SP-BB  | PDU2-PTX-AC-SP-BB  | PTX Single Phase AC PDU BaseBundle   |
| PDU2-PTX-AC-SP-R   | PDU2-PTX-AC-SP-R   | PTX Single Phase AC PDU Redundant option   |
| PDU2-PTX-AC-SP-S   | PDU2-PTX-AC-SP-S   | PTX Single Phase AC PDU Spare (Cable sold separately)                              |
| PDU2-PTX-AC-W-BB   | PDU2-PTX-AC-W-BB   | PTX High Capacity AC Wye PDU, base bundle  |
| PDU2-PTX-AC-W-R    | PDU2-PTX-AC-W-R    | PTX High Capacity AC Wye PDU, redundant  |
| PDU2-PTX-AC-W-S    | PDU2-PTX-AC-W-S    | PTX High Capacity AC Wye PDU, spare  |
| PDU2-PTX-DC-BB     | PDU2-PTX-DC-BB     | PTX High Capacity 60A DC PDU, base bundle  |
| PDU2-PTX-DC-R      | PDU2-PTX-DC-R      | PTX High Capacity 60A DC PDU, redundant  |
| PDU2-PTX-DC-S      | PDU2-PTX-DC-S      | PTX High Capacity 60A DC PDU, spare  |
| PKG-PTX3000-S      | PKG-PTX3000-S      | PTX3000 Shipping Container, Spare  |
| PKG-SIB-RE-ESD-S   | PKG-SIB-RE-ESD-S   | PTX PKG for 9 SIB and 2 REs ESD Bags   |
| PL7120SCP3R1210A   | PL7120SCP3R1210A   | FW7120 PRELOADED SCP3 R12.1  |
| PL7120SCP3R1321A   | PL7120SCP3R1321A   | FW7120 PRELOADED SCP3 R13.2  |

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| PSM2-PTX-AC-BB     | PSM2-PTX-AC-BB       | PTX High Capacity AC PSM, base bundle   |
| PSM2-PTX-AC-R      | PSM2-PTX-AC-R        | PTX High Capacity AC PSM, redundant   |
| PSM2-PTX-AC-S      | PSM2-PTX-AC-S        | PTX High Capacity AC PSM, spare   |
| PSM2-PTX-DC-BB     | PSM2-PTX-DC-BB       | PTX High Capacity 60A DC PSM, base bundle   |
| PSM2-PTX-DC-R      | PSM2-PTX-DC-R        | PTX High Capacity 60A DC PSM, redundant   |
| PSM2-PTX-DC-S      | PSM2-PTX-DC-S        | PTX High Capacity 60A DC PSM, spare   |
| PSM-SFF-PTX-AC-BB  | PSM-SFF-PTX-AC-BB    | PTX Small Form Factor AC Power Supply Module, Base Bundle                                   |
| PSM-SFF-PTX-AC-R   | PSM-SFF-PTX-AC-R     | PTX Small Form Factor AC Power Supply Module, Redundant                                     |
| PSM-SFF-PTX-AC-S   | PSM-SFF-PTX-AC-S     | PTX Small Form Factor AC Power Supply Module, spare   |
| PSM-SFF-PTX-DC-BB  | PSM-SFF-PTX-DC-BB    | PTX Small Form Factor DC Power Supply Module, base bundle                                   |
| PSM-SFF-PTX-DC-R   | PSM-SFF-PTX-DC-R     | PTX Small Form Factor DC Power Supply Module, redundant                                     |
| PSM-SFF-PTX-DC-S   | PSM-SFF-PTX-DC-S     | PTX Small Form Factor DC Power Supply Module, spare   |
| PTX10002-36QDD     | PTX10002-36QDD       | PTX10002 36 QSFP-DD800 port, system includes redundant power supplies, FAN trays, JUNOS EVO |
| PTX10002-36QDD-BB  | PTX10002-36QDD-BB    | PTX10002 chassis with 36 QSFP-DD800 ports, no power supplies or fans, Base                  |
| PTX10002-36QDD-S   | PTX10002-36QDD-S     | PTX10002 chassis with 36 QSFP-DD800 ports, no power supplies or fans, Spare                 |
| PTX1000-72Q-CHAS-S | PTX1000-72Q-CHAS-S   | PTX1000 72Q Chassis Only, No PS or Fans   |
| PTX1000-FAN-S      | PTX1000-FAN-S        | PTX1000 Chassis Fan, Spare  |
| PTX-5-100G-WDM     | PTX-5-100G-WDM       | PTX 5 x 100G DWDM PIC   |
| PTX5K-PSM2TRAY-BB  | PTX5K-PSM2TRAY-BB    | Sleeves and overlay for upgrade to PSM2   |
| PTX-P1-24-10GESFPP | P1-PTX-24-10GE-SFPP  | PTX 24 x 10GE (LAN) PIC   |
| PTX-P1-24-10GWSFPP | P1-PTX-24-10G-W-SFPP | 24x 10G LAN/WAN PHY PIC   |
| PWR-ACX4000-DC-S   | PWR-ACX4000-DC-S     | ACX4000 DC Power Module with PoE  |
| PWR-MX104-AC-BB    | PWR-MX104-AC-BB      | MX104 AC Power Supply, Base Bundle, Altius-MX104, MX series                                 |
| PWR-MX104-AC-R     | PWR-MX104-AC-R       | MX104 AC Power Supply, Altius-MX104, MX Series  |
| PWR-MX104-AC-S     | PWR-MX104-AC-S       | MX104 AC Power Supply, Spare, Altius-MX104, MX series                                       |

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| PWR-MX104-DC-BB    | PWR-MX104-DC-BB    | MX104 DC Power Supply, Base Bundle, Altius-MX104, MX series   |
| PWR-MX104-DC-R     | PWR-MX104-DC-R     | MX104 DC Power Supply, Altius-MX104, MX Series  |
| PWR-MX104-DC-S     | PWR-MX104-DC-S     | MX104 DC Power Supply, Altius-MX104   |
| PWR-MX80-AC-BB     | PWR-MX80-AC-BB     | MX80 AC Power Supply, Base Bundle, MX80   |
| PWR-MX80-AC-S      | PWR-MX80-AC-S      | MX80 AC Power Supply, Spare, MX80   |
| PWR-MX80-DC-BB     | PWR-MX80-DC-BB     | MX80 DC Power Supply, Base Bundle, MX80   |
| PWR-MX80-DC-S      | PWR-MX80-DC-S      | MX80 DC Power Supply, Spare, MX80   |
| PWR-MX960-DC-BB    | PWR-MX960-DC-BB    | MX960 DC Power Entry Module, Base Bundle, MX960   |
| PWR-MX960-DC-S     | PWR-MX960-DC-S     | MX960 DC Power Entry Module, Spare, MX960   |
| QDD-2X100G-1M      | QDD-2X100G-1M      | QSFP-DD to 2xQSFP-28 (200G to 2x100G), Breakout Direct Attach Cable, 1m, 30 AWG, Standard Temperature (0 through 70 deg C)            |
| QDD-2X100G-3M      | QDD-2X100G-3M      | QSFP-DD to 2xQSFP-28 (200G to 2x100G), Breakout Direct Attach Cable, 3m, 28 AWG, Standard Temperature (0 through 70 deg C)            |
| QDD-2X100G-CWDM4   | QDD-2X100G-CWDM4   | QSFP-DD, 2x100GE CWDM4, SMF 2 km, Standard Temperature (0 through 70 DEGREE C), Duplex CS connector                                   |
| QDD-2X100G-LR4     | QDD-2X100G-LR4     | QSFP-DD, 2x100GE LR4, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex CS connector                                    |
| QDD-2X100G-SR4     | QDD-2X100G-SR4     | QSFP28-DD 2x100G SR4 pluggable transceiver  |
| QDD-2X200G-1M      | QDD-2X200G-1M      | QSFP56DD to 2x QSFP56 (400G to 2x200G) Copper Breakout Direct Attach Cable 1m (26 AWG) Standard Temperature (0 through 70 Degree C)   |
| QDD-2X200G-2M      | QDD-2X200G-2M      | QSFP56DD to 2x QSFP56 (400G to 2x200G) Copper Breakout Direct Attach Cable 2m (26 AWG) Standard Temperature (0 through 70 Degree C)   |
| QDD-2X200G-2P5M    | QDD-2X200G-2P5M    | QSFP56DD to 2x QSFP56 (400G to 2x200G) Copper Breakout Direct Attach Cable 2.5m (26 AWG) Standard Temperature (0 through 70 Degree C) |
| QDD-2X200G-AOC-10M | QDD-2X200G-AOC-10M | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 10 meters, Standard Temperature (0 through 70 deg C)        |
| QDD-2X200G-AOC-15M | QDD-2X200G-AOC-15M | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 15 meters, Standard Temperature (0 through 70 deg C)        |
| QDD-2X200G-AOC-1M  | QDD-2X200G-AOC-1M  | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 1 meter, Standard Temperature (0 through 70 deg C)          |
| QDD-2X200G-AOC-20M | QDD-2X200G-AOC-20M | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 20 meters, Standard Temperature (0 through 70 deg C)        |
| QDD-2X200G-AOC-30M | QDD-2X200G-AOC-30M | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 30 meters, Standard Temperature (0 through 70 deg C)        |
| QDD-2X200G-AOC-3M  | QDD-2X200G-AOC-3M  | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 3 meters, Standard Temperature (0 through 70 deg C)         |
| QDD-2X200G-AOC-5M  | QDD-2X200G-AOC-5M  | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 5 meters, Standard Temperature (0 through 70 deg C)         |
| QDD-2X200G-AOC-7M  | QDD-2X200G-AOC-7M  | QSFP56-DD to QSFP56, 400GE to 2x200GE, Active Optical Cable for Breakout, 7 meters, Standard Temperature (0                           |

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|                   |                   | through 70 deg C)  |
| QDD-2X400G-DR4    | QDD-2X400G-DR4    | QSFP-DD800, 2x400GBASE-DR4 (800G DR8), SMF 500 m, Standard Temperature (0 to 70 deg C), MPO-16 APC Connector     |
| QDD-2X400G-DR4-P  | QDD-2X400G-DR4-P  | QSFP-DD800, 2x400G DR4, 500m, Standard Temperature (0 through 70 deg C), Dual MPO-12 connector                   |
| QDD-2X400G-FR4    | QDD-2X400G-FR4    | QSFP-DD800, 2x400GBASE-FR4, SMF 2 km, Standard Temperature (0 to 70 deg C), Dual CS Connector                    |
| QDD-2X400G-FR4-P  | QDD-2X400G-FR4-P  | QSFP-DD800, 2x400GBASE-FR4, SMF 2 km, Standard Temperature (0 to 70 deg C), Paired Connector - Dual LC-Duplex    |
| QDD-2X400G-LR4-10 | QDD-2X400G-LR4-10 | QSFP-DD800, 2x400G-LR4-10, SMF 10 km, Standard Temperature (0 to 70 deg C), Dual CS Connector                    |
| QDD-2X400G-LR4-P  | QDD-2X400G-LR4-P  | QSFP-DD800, 2x400G-LR4-10, SMF 10 km, Standard Temperature (0 to 70 deg C), Paired Connector - Dual LC-Duplex    |
| QDD-400G-AOC-10M  | QDD-400G-AOC-10M  | QSFP-DD, 400GE Active Optical Cable, 10 meters, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab |
| QDD-400G-AOC-15M  | QDD-400G-AOC-15M  | QSFP-DD, 400GE Active Optical Cable, 15 meters, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab |
| QDD-400G-AOC-1M   | QDD-400G-AOC-1M   | QSFP-DD, 400GE Active Optical Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab   |
| QDD-400G-AOC-20M  | QDD-400G-AOC-20M  | QSFP-DD, 400GE Active Optical Cable, 20 meters, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab |
| QDD-400G-AOC-30M  | QDD-400G-AOC-30M  | QSFP-DD, 400GE Active Optical Cable, 30 meters, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab |
| QDD-400G-AOC-3M   | QDD-400G-AOC-3M   | QSFP-DD, 400GE Active Optical Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab  |
| QDD-400G-AOC-5M   | QDD-400G-AOC-5M   | QSFP-DD, 400GE Active Optical Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab  |
| QDD-400G-AOC-7M   | QDD-400G-AOC-7M   | QSFP-DD, 400GE Active Optical Cable, 7 meters, Standard Temperature (0 through 70 DEGREE C), 12W, DDM, Pull Tab  |
| QDD-400G-DAC-1M   | QDD-400G-DAC-1M   | QSFP56-DD 400G DAC 1m  |
| QDD-400G-DAC-2P5M | QDD-400G-DAC-2P5M | QSFP56-DD 400G DAC 2.5m  |
| QDD-400G-DR4      | QDD-400G-DR4      | QSFP56-DD 400G DR4 pluggable transceiver and also 4x100G DR  |
| QDD-400G-ER4-30   | QDD-400G-ER4-30   | QSFP-DD, 400G ER4, SMF 30 km, Standard Temperature (0 through 70 deg C), Duplex LC connector                     |
| QDD-400G-FR4      | QDD-400G-FR4      | QSFP56-DD 400G FR4 pluggable transceiver   |
| QDD-400G-LR4-10   | QDD-400G-LR4-10   | QSFP-DD, 400G-LR4-10, SMF 10 km, Standard Temperature (0 through 70 deg C) Duplex LC/PC Receptacle               |
| QDD-400G-LR8      | QDD-400G-LR8      | QSFP56-DD 400G LR8 pluggable transceiver   |
| QDD-400G-SR4P2    | QDD-400G-SR4P2    | QSFP56-DD 4x100G SR4.2 pluggable transceiver 2 plane   |
| QDD-400G-SR8      | QDD-400G-SR8      | QSFP-DD, 400G-SR8, MMF 100m, Standard Temperature (0 through 70 degC), MPO Receptacle                            |
| QDD-400G-VR4      | QDD-400G-VR4      | QSFPDD, VR4, 50m, Standard Temperature (0 through 70 deg C), MPO-12 connector                                    |



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| QDD-400G-ZR        | QDD-400G-ZR        | QSFP-DD, 400G-ZR, SMF 40 km, Standard Temperature (0 through 70 deg C); Duplex LC/PC Receptacle                                      |
| QDD-400G-ZR-M      | QDD-400G-ZR-M      | QSFP-DD, 400G-ZR-M, Metro DWDM, Standard Temperature (0 through 70 deg C), Duplex LC Connector                                       |
| QDD-400G-ZR-M-HP   | QDD-400G-ZR-M-HP   | QSFP-DD, 400G-ZR-M, Metro DWDM, 0dBm, Standard Temperature (0 through 70 deg C), Duplex LC Connector                                 |
| QDD-4X100G-1M      | QDD-4X100G-1M      | QSFP56DD to 4xQSFP28 (400G to 4x100G) Copper Breakout Direct Attach Cable 1m (26 AWG) Standard Temperature (0 through 70 Degree C)   |
| QDD-4X100G-2M      | QDD-4X100G-2M      | QSFP56DD to 4xQSFP28 (400G to 4x100G) Copper Breakout Direct Attach Cable 2m (26 AWG) Standard Temperature (0 through 70 Degree C)   |
| QDD-4X100G-2P5M    | QDD-4X100G-2P5M    | QSFP56DD to 4xQSFP28 (400G to 4x100G) Copper Breakout Direct Attach Cable 2.5m (26 AWG) Standard Temperature (0 through 70 Degree C) |
| QDD-4X100G-AOC-10M | QDD-4X100G-AOC-10M | QSFP56-DD to QSFP28, 400GE to 4x100GE, Active Optical Cable for Breakout, 10 meters, Standard Temperature (0 through 70 deg C)       |
| QDD-4X100G-AOC-15M | QDD-4X100G-AOC-15M | QSFP56-DD to QSFP28, 400GE to 4x100GE, Active Optical Cable for Breakout, 15 meters, Standard Temperature (0 through 70 deg C)       |
| QDD-4X100G-AOC-1M  | QDD-4X100G-AOC-1M  | QSFP56-DD to QSFP56 100G Active Optical Cable 1M   |
| QDD-4X100G-AOC-20M | QDD-4X100G-AOC-20M | QSFP56-DD to QSFP28, 400GE to 4x100GE, Active Optical Cable for Breakout, 20 meters, Standard Temperature (0 through 70 deg C)       |
| QDD-4X100G-AOC-30M | QDD-4X100G-AOC-30M | QSFP56-DD to QSFP28, 400GE to 4x100GE, Active Optical Cable for Breakout, 30 meters, Standard Temperature (0 through 70 deg C)       |
| QDD-4X100G-AOC-3M  | QDD-4X100G-AOC-3M  | QSFP56-DD to QSFP56 100G Active Optical Cable 3M   |
| QDD-4X100G-AOC-5M  | QDD-4X100G-AOC-5M  | QSFP56-DD to QSFP56 100G Active Optical Cable 5M   |
| QDD-4X100G-AOC-7M  | QDD-4X100G-AOC-7M  | QSFP56-DD to QSFP56 100G Active Optical Cable 7M   |
| QDD-4X100G-FR      | QDD-4X100G-FR      | QSFP56-DD 4x100G FR pluggable transceiver  |
| QDD-4X100G-LR      | QDD-4X100G-LR      | QSFP-DD, 4x100GE LR, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), MPO-12 APC connector                                   |
| QDD-800G-AOC-10M   | QDD-800G-AOC-10M   | QSFP-DD800, 800GE Active Optical Cable, 10 meters, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                     |
| QDD-800G-AOC-15M   | QDD-800G-AOC-15M   | QSFP-DD800, 800GE Active Optical Cable, 15 meters, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                     |
| QDD-800G-AOC-1M    | QDD-800G-AOC-1M    | QSFP-DD800, 800GE Active Optical Cable, 1 meter, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                       |
| QDD-800G-AOC-20M   | QDD-800G-AOC-20M   | QSFP-DD800, 800GE Active Optical Cable, 10 meters, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                     |
| QDD-800G-AOC-30M   | QDD-800G-AOC-30M   | QSFP-DD800, 800GE Active Optical Cable, 30 meters, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                     |
| QDD-800G-AOC-3M    | QDD-800G-AOC-3M    | QSFP-DD800, 800GE Active Optical Cable, 3 meters, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                      |
| QDD-800G-AOC-5M    | QDD-800G-AOC-5M    | QSFP-DD800, 800GE Active Optical Cable, 5 meters, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                      |
| QDD-800G-AOC-7M    | QDD-800G-AOC-7M    | QSFP-DD800, 800GE Active Optical Cable, 7 meters, Standard Temperature (0 through 70 deg C), 18W, DDM, Pull Tab                      |

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| QDD-800G-DAC-1M    | QDD-800G-DAC-1M    | QSFP-DD800, 800G, Direct attach cable for Breakout, 1 meter, Standard Temperature (0 through 70 deg C)                              |
| QDD-8X100G-FR1     | QDD-8X100G-FR1     | QSFP-DD800, 8x100G-FR, SMF 2 km, Standard Temperature (0 to 70 deg C), MPO-16 APC Connector   |
| QDD-8X100G-LR1     | QDD-8X100G-LR1     | QSFP-DD800, 8x100GBASE-LR1, SMF 10 km, Standard Temperature (0 to 70 deg C), MPO-16 APC Connector                                   |
| QDD-8X50G-1M       | QDD-8X50G-1M       | QSFP56DD to 8xSFP56 (400G to 4x100G) Copper Breakout Direct Attach Cable 1m (26 AWG) Standard Temperature (0 through 70 Degree C)   |
| QDD-8X50G-2M       | QDD-8X50G-2M       | QSFP56DD to 8xSFP56 (400G to 4x100G) Copper Breakout Direct Attach Cable 2m (26 AWG) Standard Temperature (0 through 70 Degree C)   |
| QDD-8X50G-2P5M     | QDD-8X50G-2P5M     | QSFP56DD to 8xSFP56 (400G to 4x100G) Copper Breakout Direct Attach Cable 2.5m (26 AWG) Standard Temperature (0 through 70 Degree C) |
| QFX10000-30C       | QFX10000-30C       | QFX10000 30-port 100G QSFP28 /24-port 40G QSFP+ with 6-port 100G QSFP28 line card   |
| QFX10000-36Q       | QFX10000-36Q       | QFX10000 36-port 40G QSFP+ / 12-port 100G QSFP28 line card  |
| QFX10000-60S-6Q    | QFX10000-60S-6Q    | QFX10000 60-port 1/10G SFP/SFP+ line card with 6 40G QSFP+ / 2 100G QSFP28 ports  |
| QFX10000-PWR-AC    | QFX10000-PWR-AC    | QFX10000 2700W AC Power Supply, Spare   |
| QFX10000-PWR-DC    | QFX10000-PWR-DC    | QFX10000 2500W DC Power Supply, Spare   |
| QFX10000-RE        | QFX10000-RE        | QFX10000 Routing Engine, Spare  |
| QFX10000-SSD-100GB | QFX10000-SSD-100GB | QFX10000 100GB SSD  |
| QFX10000-SSD-50GB  | QFX10000-SSD-50GB  | QFX10000 50GB SSD   |
| QFX10002-36Q-CHAS  | QFX10002-36Q-CHAS  | QFX10002 System w/ 36 40GE ports QSFP+ / 24 100GE ports QSFP28 / 288 10GE ports Switch, Chassis only                                |
| QFX10002-72Q-CHAS  | QFX10002-72Q-CHAS  | QFX10002 System w/ 72 40GE ports QSFP+ / 24 100GE ports QSFP28 / 288 10GE ports Switch, Chassis only                                |
| QFX10002-FAN       | QFX10002-FAN       | QFX10002 Fan tray   |
| QFX10008-CHAS      | QFX10008-CHAS      | QFX10008 Chassis, Spare   |
| QFX10008-FAN       | QFX10008-FAN       | QFX10008 Fan, Spare   |
| QFX10008-FAN-CTRL  | QFX10008-FAN-CTRL  | QFX10008 Fan tray controller, Spare   |
| QFX10008-SF        | QFX10008-SF        | QFX10008 Switch Fabric Card, Spare  |
| QFX10016-CHAS      | QFX10016-CHAS      | QFX10016 Chassis, Spare   |
| QFX10016-FAN       | QFX10016-FAN       | QFX10016 Fan, Spare   |
| QFX10016-FAN-CTRL  | QFX10016-FAN-CTRL  | QFX10016 Fan tray controller, Spare   |
| QFX10016-SF        | QFX10016-SF        | QFX10016 Switch Fabric Card, Spare  |

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| QFX5100-24Q-3AFI   | QFX5100-24Q-3AFI   | QFX5100, 24 QSFP+ ports, 2 expansion slots, redundant fans, 2 AC power supplies, back to front airflow                              |
| QFX5100-24Q-3AFI-T | QFX5100-24Q-3AFI-T | QFX5100, 24 QSFP+ ports, 2 expansion slots, dual SFP/RJ45 mgmt, redundant fans, 2 AC power supplies, back to front airflow, TAA     |
| QFX5100-24Q-3AFO   | QFX5100-24Q-3AFO   | QFX5100, 24 QSFP+ ports, 2 expansion slots, redundant fans, 2 AC power supplies, front to back airflow                              |
| QFX5100-24Q-3AFO-T | QFX5100-24Q-3AFO-T | QFX5100, 24 QSFP+ ports, 2 expansion slots, dual SFP/RJ45 mgmt, redundant fans, 2 AC power supplies, front to back airflow, TAA     |
| QFX5100-24Q-AA-AFI | QFX5100-24Q-AA-AFI | 24 QSFP+ Application Acceleration Platform, Back to Front AC  |
| QFX5100-24Q-AA-AFO | QFX5100-24Q-AA-AFO | 24 QSFP+ Application acceleration Platform, Front to Back AC  |
| QFX5100-24Q-AFI    | QFX5100-24Q-AFI    | QFX5100, 24 QSFP ports, 2 expansion slots, redundant fans, redundant power supplies, PSU to built in port air flow.                 |
| QFX5100-24Q-AFO    | QFX5100-24Q-AFO    | QFX5100, 24 QSFP ports, 2 expansion slots, redundant fans, redundant power supplies Built in Port to PSU air flow                   |
| QFX5100-24Q-D-3AFI | QFX5100-24Q-D-3AFI | QFX5100, 24 QSFP+ ports, 2 expansion slots, redundant fans, 2 DC power supplies, back to front airflow                              |
| QFX5100-24Q-D-3AFO | QFX5100-24Q-D-3AFO | QFX5100, 24 QSFP+ ports, 2 expansion slots, redundant fans, 2 DC power supplies, front to back airflow                              |
| QFX5100-24Q-DC-AFI | QFX5100-24Q-DC-AFI | QFX5100, 24 QSFP ports, 2 expansion slots, redundant fans, redundant power supplies, PSU to Built in Port air flow.                 |
| QFX5100-24Q-DC-AFO | QFX5100-24Q-DC-AFO | QFX5100, 24 QSFP ports, 2 expansion slots, redundant fans, redundant power supplies, Built in Port to PSU air flow.                 |
| QFX5100-48S-3AFI   | QFX5100-48S-3AFI   | QFX5100, 48 SFP+/SFP ports, 6 QSFP+ ports, redundant fans, 2 AC power supplies, back to front airflow                               |
| QFX5100-48S-3AFI-T | QFX5100-48S-3AFI-T | QFX5100, 48 SFP+/SFP ports, 6 QSFP+ ports, dual SFP/RJ45 mgmt, redundant fans, 2 AC power supplies, back to front airflow, TAA      |
| QFX5100-48S-3AFO   | QFX5100-48S-3AFO   | QFX5100, 48 SFP+/SFP ports, 6 QSFP+ ports, redundant fans, 2 AC power supplies, front to back airflow                               |
| QFX5100-48S-3AFO-T | QFX5100-48S-3AFO-T | QFX5100, 48 SFP+/SFP ports, 6 QSFP+ ports, dual SFP/RJ45 mgmt, redundant fans, 2 AC power supplies, front to back airflow, TAA      |
| QFX5100-48S-AFI    | QFX5100-48S-AFI    | QFX5100, 48 SFP+/SFP ports, 6 QSFP ports, redundant fans, redundant power supplies, PSU to built in port air flow.                  |
| QFX5100-48S-AFO    | QFX5100-48S-AFO    | QFX5100, 48 SFP+/SFP ports, 6 QSFP ports, redundant fans, redundant power supplies, Built in Port to PSU air flow.                  |
| QFX5100-48S-D-3AFI | QFX5100-48S-D-3AFI | QFX5100, 48 SFP+/SFP ports, 6 QSFP+ ports, redundant fans, 2 DC power supplies, back to front airflow                               |
| QFX5100-48S-D-3AFO | QFX5100-48S-D-3AFO | QFX5100, 48 SFP+/SFP ports, 6 QSFP+ ports, redundant fans, 2 DC power supplies, front to back airflow                               |
| QFX5100-48S-DC-AFI | QFX5100-48S-DC-AFI | QFX5100, 48 SFP+/SFP ports, 6 QSFP ports, redundant fans, redundant power supplies, PSU to built in port air flow.                  |
| QFX5100-48S-DC-AFO | QFX5100-48S-DC-AFO | QFX5100, 48 SFP+/SFP ports, 6 QSFP ports, redundant fans, redundant power supplies, Built in Port to PSU air flow.                  |
| QFX5100-48SH-CHAS  | QFX5100-48SH-CHAS  | QFX5100-48SH chassis spare  |
| QFX5100-48T-AFI    | QFX5100-48T-AFI    | QFX5100, 48 100M/1G/10G Base-T, 6 QSFP ports, redundant fans, redundant power supplies, PSU to built in port air flow.              |
| QFX5100-48T-AFI-T  | QFX5100-48T-AFI-T  | QFX5100, 48 100M/1G/10G Base-T, 6 QSFP+ ports, dual SFP/RJ45 mgmt, redundant fans, redundant AC power supplies, Back to front airfl |

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| QFX5100-48T-AFO    | QFX5100-48T-AFO    | QFX5100, 48 100M/1G/10G Base-T, 6 QSFP ports, redundant fans, redundant power supplies, Built in Port to PSU air flow.              |
| QFX5100-48T-AFO-T  | QFX5100-48T-AFO-T  | QFX5100, 48 100M/1G/10G Base-T, 6 QSFP+ ports, dual SFP/RJ45 mgmt, redundant fans, redundant AC power supplies, front to back airfl |
| QFX5100-48T-DC-AFI | QFX5100-48T-DC-AFI | QFX5100, 48 100M/1G/10G Base-T, 6 QSFP ports, redundant fans, redundant power supplies, PSU to built in port air flow.              |
| QFX5100-48T-DC-AFO | QFX5100-48T-DC-AFO | QFX5100, 48 100M/1G/10G Base-T, 6 QSFP ports, redundant fans, redundant power supplies, Built in Port to PSU air flow.              |
| QFX5100-48TH-CHAS  | QFX5100-48TH-CHAS  | QFX5100-48TH chassis spare  |
| QFX5100-96S-AFI    | QFX5100-96S-AFI    | QFX5100, 96 1/10G SFP+,8 40G QSFP ports, redundant fans and PSUs, AC, Back to Front airflow   |
| QFX5100-96S-AFI-T  | QFX5100-96S-AFI-T  | QFX5100, 96 SFP+/SFP ports, 8 QSFP+ ports, redundant fans, 2 AC power supplies, front to back airflow,TAA                           |
| QFX5100-96S-AFO    | QFX5100-96S-AFO    | QFX5100, 96 1/10G SFP+,8 40G QSFP ports, redundant fans and PSUs, AC, Front to Back airflow   |
| QFX5100-96S-AFO-T  | QFX5100-96S-AFO-T  | QFX5100, 96 SFP+/SFP ports, 8 QSFP+ ports, redundant fans, 2 AC power supplies, back to front airflow, TAA                          |
| QFX5100-96S-DC-AFI | QFX5100-96S-DC-AFI | QFX5100, 96 1/10G SFP+,8 40G QSFP ports, redundant fans and PSUs, DC, Back to Front airflow   |
| QFX5100-96S-DC-AFO | QFX5100-96S-DC-AFO | QFX5100, 96 1/10G SFP+,8 40G QSFP ports, redundant fans and PSUs DC, Front to Back airflow  |
| QFX5100-96S-FANAFI | QFX5100-96S-FANAFI | Back to Front Airflow Fan Module for QFX5100-96S  |
| QFX5100-96S-FANAFO | QFX5100-96S-FANAFO | Front to Back Airflow Fan Module for QFX5100-96S  |
| QFX5100-FAN-AFI    | QFX5100-FAN-AFI    | QFX5100, Fan Module for PSU side to Built in Port Side Air Flow   |
| QFX5100-FAN-AFO    | QFX5100-FAN-AFO    | QFX5100, Fan Module PSU Side to Built in Port Side Air Flow   |
| QFX5110-32Q-CHAS   | QFX5110-32Q-CHAS   | QFX5110-32Q chassis spare, no fans and PSUs included.   |
| QFX5110-48S-AFI    | QFX5110-48S-AFI    | 48 SFP+ and 4 QSFP28, Back to Front AC  |
| QFX5110-48S-AFI2   | QFX5110-48S-AFI2   | 48 SFP+ and 4 QSFP28, back to front air flow, AC  |
| QFX5110-48S-AFI-T  | QFX5110-48S-AFI-T  | QFX5110-48S TAA Model back to front, AC   |
| QFX5110-48S-AFI-T2 | QFX5110-48S-AFI-T2 | QFX5110-48S TAA Model, back to front air flow, AC   |
| QFX5110-48S-AFO    | QFX5110-48S-AFO    | 48 SFP+ and 4 QSFP28, Front to Back AC  |
| QFX5110-48S-AFO2   | QFX5110-48S-AFO2   | 48 SFP+ and 4 QSFP28, front to back air flow, AC  |
| QFX5110-48S-AFO-T  | QFX5110-48S-AFO-T  | QFX5110-48S TAA Model front to back, AC   |
| QFX5110-48S-AFO-T2 | QFX5110-48S-AFO-T2 | QFX5110-48S TAA Model, front to back air flow, AC   |
| QFX5110-48S-D-AFI2 | QFX5110-48S-D-AFI2 | 48 SFP+ and 4 QSFP28, back to front air flow, DC  |

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| QFX5110-48S-D-AFO2 | QFX5110-48S-D-AFO2 | 48 SFP+ and 4 QSFP28, front to back air flow, DC   |
| QFX5110-48S-DC-AFI | QFX5110-48S-DC-AFI | 48 SFP+ and 4 QSFP28, Back to front DC   |
| QFX5110-48S-DC-AFO | QFX5110-48S-DC-AFO | 48 SFP+ and 4 QSFP28, Front to Back DC   |
| QFX5110-FANAFI     | QFX5110-FANAFI     | QFX5110-FANAFI FAN Model, back-to-front airflow  |
| QFX5110-FANAFO     | QFX5110-FANAFO     | QFX5110-FANAFO FAN Model, front-to-back airflow  |
| QFX5120-32C-CHAS   | QFX5120-32C-CHAS   | Chassis Spare for QFX5120-32C  |
| QFX5120-48T-CHAS   | QFX5120-48T-CHAS   | Chassis for QFX5120-48T  |
| QFX5120-48YM-CHAS  | QFX5120-48YM-CHAS  | QFX5120-48YM Chassis, Spare, MACSec AES-256, 48x25G+8x100G 1U, No PSU or Fans  |
| QFX5130-32CD-CHAS  | QFX5130-32CD-CHAS  | Chassis for Trident 4 QFX5130-32CD   |
| QFX5130-48C-CHAS   | QFX5130-48C-CHAS   | Chassis for Trident 4 QFX5130-48C  |
| QFX5130-48C-FANAFI | QFX5130-48C-FANAFI | Back to Front Airflow Fan Module for QFX5130-48C   |
| QFX5130-48C-FANAFO | QFX5130-48C-FANAFO | Front to Back Airflow Fan Module for QFX5130-48C   |
| QFX5130-48CM-CHAS  | QFX5130-48CM-CHAS  | Macsec Chassis for Trident 4 QFX5130-48C   |
| QFX5130E-32CD-CHAS | QFX5130E-32CD-CHAS | Chassis Spare for Trident 4 QFX5130E-32CD without FAN & Power module   |
| QFX5200-32C-AFI    | QFX5200-32C-AFI    | QFX5200, 32 QSF+ ports, redundant fans, 2 AC power supplies, back to front airflow, SW license not included.                         |
| QFX5200-32C-AFI2   | QFX5200-32C-AFI2   | QFX5200, 32 QSF+ ports, redundant fans, 2 AC power supplies, back to front airflow, FLEX TRANSFORM                                   |
| QFX5200-32C-AFI-T  | QFX5200-32C-AFI-T  | QFX5200 TAA (HW Only, Junos License is Required and Sold Separately), 32 QSFP+/QSFP28 Ports, Redundant Fans, 2 AC Power Supplies, B  |
| QFX5200-32C-AFI-T2 | QFX5200-32C-AFI-T2 | QFX5200 TAA, 32 QSFP+/QSFP28 Ports, Redundant Fans, 2 AC Power Supplies, Back to Front Airflow, FLEX TRANSFORM                       |
| QFX5200-32C-AFO    | QFX5200-32C-AFO    | QFX5200, 32 QSFP+ ports, redundant fans, 2 AC power supplies, front to back airflow, SW license not included.                        |
| QFX5200-32C-AFO2   | QFX5200-32C-AFO2   | QFX5200, 32 QSF+ ports, redundant fans, 2 AC power supplies, front to back airflow, FLEX TRANSFORM                                   |
| QFX5200-32C-AFO-T  | QFX5200-32C-AFO-T  | QFX5200 TAA (HW Only, Junos License is Required and Sold Separately), 32 QSFP+/QSFP28 Ports, Redundant Fans, 2 AC Power Supplies, Fr |
| QFX5200-32C-AFO-T2 | QFX5200-32C-AFO-T2 | QFX5200 TAA, 32 QSFP+/QSFP28 Ports, Redundant Fans, 2 AC Power Supplies, Front to Back Airflow, FLEX TRANSFORM                       |
| QFX5200-32C-CHAS   | QFX5200-32C-CHAS   | 1U 32x100G CHAS with EVO   |
| QFX5200-32C-D-AFI2 | QFX5200-32C-D-AFI2 | QFX5200, 32 QSF+ ports, redundant fans, 2 DC power supplies, back to front airflow, FLEX TRANSFORM                                   |
| QFX5200-32C-D-AFO2 | QFX5200-32C-D-AFO2 | QFX5200, 32 QSF+ ports, redundant fans, 2 DC power supplies, front to back airflow, FLEX TRANSFORM                                   |

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| QFX5200-32C-DC-AFI | QFX5200-32C-DC-AFI | QFX5200, 32 QSF+ ports, redundant fans, 2 DC power supplies, back to front airflow, SW license not included.                         |
| QFX5200-32C-DC-AFO | QFX5200-32C-DC-AFO | QFX5200, 32 QSF+ Ports, Redundant Fans, 2 DC Power Supplies, Front to Back Airflow, SW License not included                          |
| QFX5200-32C-FANAFI | QFX5200-32C-FANAFI | QFX5200-32C FAN module, back to front airflow  |
| QFX5200-32C-FANAFO | QFX5200-32C-FANAFO | QFX5200-32C FAN module, front to back airflow  |
| QFX520048Y-APSU-AI | QFX520048Y-APSU-AI | AC AFI 650W PSU for QFX5200-48Y  |
| QFX520048Y-APSU-AO | QFX520048Y-APSU-AO | AC AFO 650W PSU for QFX5200-48Y  |
| QFX5200-48Y-CHAS   | QFX5200-48Y-CHAS   | Spare CHAS for QFX5200-48Y, no PSUs and FANs   |
| QFX520048Y-DPSU-AI | QFX520048Y-DPSU-AI | DC AFI 650W PSU for QFX5200-48Y  |
| QFX520048Y-DPSU-AO | QFX520048Y-DPSU-AO | DC AFO 650W PSU for QFX5200-48Y  |
| QFX520048Y-FAN-AI  | QFX520048Y-FAN-AI  | FAN AFI for QFX5200-48Y  |
| QFX520048Y-FAN-AO  | QFX520048Y-FAN-AO  | FAN AFO for QFX5200-48Y  |
| QFX5210-64C-CHAS   | QFX5210-64C-CHAS   | QFX5210-64C chassis spare, no fans and PSUs included   |
| QFX5210-FANAFI     | QFX5210-FANAFI     | QFX5210-FANAFI FAN Model, back-to-front airflow  |
| QFX5210-FANAFO     | QFX5210-FANAFO     | QFX5210-FANAFO FAN Model, front-to-back airflow  |
| QFX5220-128C-CHAS  | QFX5220-128C-CHAS  | 128 x 100G 4U CHAS with no PSUs and FANs   |
| QFX5220-128C-FANAO | QFX5220-128C-FANAO | AFO FANS for QFX5220-128C  |
| QFX5220-32CD-CHAS  | QFX5220-32CD-CHAS  | 32 x 400G 1U CHAS with no PSUs and FANs  |
| QFX5220-32CD-D-AFI | QFX5220-32CD-D-AFI | 32 x 400G 1U system with dual DC PSUs and Air Flow in  |
| QFX5220-32CD-FANAI | QFX5220-32CD-FANAI | AFI FANS for QFX5220-32CD  |
| QFX5220-32CD-FANAO | QFX5220-32CD-FANAO | AFO FANS for QFX5220-32CD  |
| QFX5230-64CD-CHAS  | QFX5230-64CD-CHAS  | QFX5230-64CD-CHAS: 64x400Ge QFX5230-64cd spare chassis   |
| QFX5230-64CD-FANAI | QFX5230-64CD-FANAI | FRU-to-port, that is, air comes in from the end of the switch with the fans; air exhausts from the switch end with ports (also known |
| QFX5230-64CD-FANAO | QFX5230-64CD-FANAO | Port-to-FRU, that is, air comes in through vents on the end with ports; air exhausts out the end with the fans (also known as front- |
| QFX5240-2U-FANAO   | QFX5240-2U-FANAO   | Front-to-back airflow FAN for QFX5240-64OD and QFX5240-64QD platforms.   |
| QFX5240-64OD-CHAS  | QFX5240-64OD-CHAS  | 64x800GbE OSFP switch chassis only. Does not include PSU, FAN, or RMK.   |

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| QFX5240-64QD-CHAS | QFX5240-64QD-CHAS | 64x800GbE QSFP-DD switch chassis only. Does not include PSU, FAN, or RMK.  |
| QFX5240-PWR-AC-AO | QFX5240-PWR-AC-AO | QFX5240-2RU AC PSU, front-to-back airflow  |
| QFX5700E-FEB      | QFX5700E-FEB      | Packet Forwarding Engine Board (PFE) Card for QFX5700E   |
| QFX5700-FEB       | QFX5700-FEB       | PFE Card for QFX5700   |
| QFX5700-RCB       | QFX5700-RCB       | QFX5700 RE card  |
| QFXC08-FANS       | QFXC08-FANS       | Side Fan Tray for QFXC08 Chassis (spare)   |
| QFX-EM-4Q         | QFX-EM-4Q         | 4 port QSPF Expansion Module for QFX5100   |
| QFX-PFA-4Q        | QFX-PFA-4Q        | 4 QSFP+ Packet Flow Accelerator Module   |
| QFX-QSFP-40G-ESR4 | QFX-QSFP-40G-ESR4 | QSFP+, 40GBASE-ESR4, MMF OM3 300 meters and OM4 400 meters, Standard Temperature (0 through 70 DEGREE C), MPO-12 connector           |
| QFX-QSFP-40G-SR4  | QFX-QSFP-40G-SR4  | QSFP+, 40GBASE-SR4 for Switching Platforms, MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), MPO |
| QFX-QSFP-DAC-1M   | QFX-QSFP-DAC-1M   | QSFP+, 40GE Direct Attach Copper Cable, 1 meter, Industrial Temperature (-40 through 85 DEGREE C), 0.015W, 30 AWG                    |
| QFX-QSFP-DAC-3M   | QFX-QSFP-DAC-3M   | QSFP+, 40GE Direct Attach Copper Cable, 1 meter, Industrial Temperature (-40 through 85 DEGREE C), 0.015W, 30 AWG                    |
| QFX-QSFP-DACBO-1M | QFX-QSFP-DACBO-1M | QSFP+ to SFP+, 40GE to 4x10GE Direct Attach Copper Cable for Breakout, 1 meter, Extended Temperature (-40 through 85 DEGREE C), 30   |
| QFX-QSFP-DACBO-3M | QFX-QSFP-DACBO-3M | QSFP+ to SFP+, 40GE to 4x10GE Direct Attach Copper Cable for Breakout, 3 meters, Extended Temperature (-40 through 85 DEGREE C), 30  |
| QFX-SFP-10GE-ER   | QFX-SFP-10GE-ER   | SFP+ 10GBase-ER 10 Gigabit Ethernet Optics, 1550nm for 40km Transmission on SMF  |
| QFX-SFP-10GE-LR   | QFX-SFP-10GE-LR   | SFP+ 10GBase-LR 10 Gigabit Ethernet Optics, 1310nm for 10km Transmission on SMF  |
| QFX-SFP-10GE-SR   | QFX-SFP-10GE-SR   | SFP+ 10GBase-SR 10 Gigabit Ethernet Optics, 850nm for up to 300m Transmission on MMF   |
| QFX-SFP-10GE-USR  | QFX-SFP-10GE-USR  | SFP+ 10 Gigabit Ethernet Ultra Short Reach Optics, 850 nm for 10m on OM1, 20m on OM2, 100m on OM3 Multi-Mode Fiber                   |
| QFX-SFP-1GE-LX    | QFX-SFP-1GE-LX    | SFP 1000Base-LX Gigabit Ethernet Optics, 1310nm for 10km transmission on SMF   |
| QFX-SFP-1GE-SX    | QFX-SFP-1GE-SX    | SFP 1000Base-SX Gigabit Ethernet Optics, 850nm for upto 550m Transmission on MMF   |
| QFX-SFP-1GE-T     | QFX-SFP-1GE-T     | SFP 1000Base-T Copper Transceiver Module for up to 100m transmission on Cat5   |
| QFX-SFP-DAC-10MA  | QFX-SFP-DAC-10MA  | SFP+, 10GE Active Direct Attach Copper Cable, 10 meters, Standard Temperature (0 through 70 DEGREE C), 0.627W, 28 AWG                |
| QFX-SFP-DAC-1M    | QFX-SFP-DAC-1M    | SFP+, 10GE Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.015W, 30 AWG                         |
| QFX-SFP-DAC-1MA   | QFX-SFP-DAC-1MA   | SFP+, 10GE Active Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.627W, 30 AWG                  |
| QFX-SFP-DAC-3M    | QFX-SFP-DAC-3M    | SFP+, 10GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 30 AWG                        |

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| QFX-SFP-DAC-3MA    | QFX-SFP-DAC-3MA    | SFP+, 10GE Active Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.627W, 30 AWG         |
| QFX-SFP-DAC-5M     | QFX-SFP-DAC-5M     | SFP+, 10GE Direct Attach Copper Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 24 AWG                |
| QFX-SFP-DAC-5MA    | QFX-SFP-DAC-5MA    | SFP+, 10GE Active Direct Attach Copper Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.627W, 30 AWG         |
| QFX-SFP-DAC-7MA    | QFX-SFP-DAC-7MA    | SFP+, 10GE Active Direct Attach Copper Cable, 7 meters, Standard Temperature (0 through 70 DEGREE C), 0.627W, 30 AWG         |
| QSFP-100G-4WDM40   | QSFP-100G-4WDM40   | QSFP28, 100G 4DWDM-40, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| QSFP-100G-4WDM40-I | QSFP-100G-4WDM40-I | QSFP28, 100G 4DWDM-40, SMF 40 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                      |
| QSFP-100GBASE-CWDM | QSFP-100GBASE-CWDM | QSFP28, 100GBASE-CWDM4   |
| QSFP-100GBASE-LR4  | QSFP-100GBASE-LR4  | 100GBASE-LR4 QSFP28 pluggable module, support only Ethernet rate   |
| QSFP-100GBASE-SR4  | QSFP-100GBASE-SR4  | 100GBASE-SR4 QSFP28 pluggable module, support only Ethernet rate   |
| QSFP-100G-CWDM4-IT | QSFP-100G-CWDM4-IT | QSFP28, 100GBASE-CWDM4, SMF 2 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                      |
| QSFP-100G-CWDM-C   | QSFP-100G-CWDM-C   | QSFP28, 100GBASE-CWDM4, SMF 2 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| QSFP-100G-CWDM-T2  | QSFP-100G-CWDM-T2  | QSFP28 CWDM4 for <70C operation  |
| QSFP-100G-DAC-50CM | QSFP-100G-DAC-50CM | QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)                                   |
| QSFP-100G-DR       | QSFP-100G-DR       | QSFP28, 100GBASE-DR, SMF 500 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                       |
| QSFP-100G-ER4L     | QSFP-100G-ER4L     | QSFP28, 100GBASE-ER4 Lite, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                      |
| QSFP-100G-ERBD-D   | QSFP-100G-ERBD-D   | QSFP28, 100G ER BiDi, Downstream - Tx 1309nm/Rx 1304nm, SMF 40km, Standard Temperature (0 to 70 deg C), Simplex LC connector |
| QSFP-100G-ERBD-U   | QSFP-100G-ERBD-U   | QSFP28, 100G ER BiDi, Upstream - Tx 1304nm/Rx 1309nm, SMF 40km, Standard Temperature (0 to 70 deg C), Simplex LC connector   |
| QSFP-100G-FR       | QSFP-100G-FR       | QSFP28, 100GBASE-FR1, SMF 2 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                            |
| QSFP-100G-LR       | QSFP-100G-LR       | QSFP28, 100GBASE-LR1, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                           |
| QSFP-100G-LR4-C    | QSFP-100G-LR4-C    | QSFP28, 100GBASE-LR4, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                           |
| QSFP-100G-LR4-IT   | QSFP-100G-LR4-IT   | QSFP28, 100GBASE-LR4, SMF 10 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                       |
| QSFP-100G-LR4-T2   | QSFP-100G-LR4-T2   | 100G-LR4 Ethernet only QSFP28 Module Type 2  |
| QSFP-100G-LRBD-D   | QSFP-100G-LRBD-D   | QSFP28, 100G LR BiDi, Downstream - Tx 1331nm/Rx 1271nm, SMF 10km, Standard Temperature (0 to 70 deg C), Simplex LC connector |
| QSFP-100G-LRBD-U   | QSFP-100G-LRBD-U   | QSFP28, 100G LR BiDi, Upstream - Tx 1271nm/Rx 1331nm, SMF 10km, Standard Temperature (0 to 70 deg C), Simplex LC connector   |
| QSFP-100G-PSM4-T2  | QSFP-100G-PSM4-T2  | QSFP28 optical module, PSM4, <70C operation  |



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| QSFP-100G-SR1P2    | QSFP-100G-SR1P2    | QSFP28, 100G-SR1.2 Bidirectional, MMF OM5 150m, Standard Temperature (0 through 70 deg C), LC connector                              |
| QSFP-100G-SR4-C    | QSFP-100G-SR4-C    | QSFP28, 100GE SR4, MMF OM3 70 meters and OM4 100 meters, Standard Temperature (0 through 70 DEGREE C), MPO-12 connector              |
| QSFP-100G-SR4-ET   | QSFP-100G-SR4-ET   | QSFP28, 100GBASE-SR4, MMF OM3 70m and OM4 100m, Extended Temperature (0 through 85DEGREE C), MPO-12 connector                        |
| QSFP-100G-SR4-T2   | QSFP-100G-SR4-T2   | 100G-SR4 Ethernet only QSFP28 Module Type 2  |
| QSFP-100G-ZR       | QSFP-100G-ZR       | QSFP28, 100GBASE-ZR, Coherent DWDM, SMF 80-120km, Standard Temperature (0 to 70 deg C), Duplex LC connector                          |
| QSFP-100G-ZR4      | QSFP-100G-ZR4      | QSFP28, 100G ZR4, SMF 60 km, Standard Temperature (0 through 70 deg C), Duplex LC Connector  |
| QSFP-4X25G-LR      | QSFP-4X25G-LR      | QSFP28, 4x25GBASE-LR, SMF 10 km, Standard Temperature (0 through 70 deg C), MPO-12 connector   |
| QSFP-40GBASE-ER4   | QSFP-40GBASE-ER4   | QSFP+, 40GBASE-ER4 for Routing Platforms, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector               |
| QSFP-40GBASE-LR4   | QSFP-40GBASE-LR4   | QSFP+, 40GBASE-LR4 for Routing Platforms, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector               |
| QSFP-40GBASE-SR4   | QSFP-40GBASE-SR4   | QSFP+, 40GBASE-SR4 for Routing Platforms, MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), MPO-1 |
| QSFP-40G-LR4-C     | QSFP-40G-LR4-C     | QSFP+, 40G, SMF 10km, Standard Temperature (0 through 70 DegC), Duplex LC connector  |
| QSFP-40G-LX4       | QSFP-40G-LX4       | QSFP+, 40GBASE-LX4 for Routing Platforms, SMF 2 km or MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGR |
| QSFP-4X10GE-LR     | QSFP-4X10GE-LR     | QSFP+, 4x10GBASE-LR for Routing Platforms, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), MPO-12 APC connector             |
| QSFP-4X10GE-SR     | QSFP-4X10GE-SR     | QSFP+, 4x10GBASE-SR, MMF OM3 300 meters and OM4 400 meters, Standard Temperature (0 through 70 DEGREE C), MPO-12 connector           |
| RCB-CC-BB          | RCB-CC-BB          | RCB Companion Card, Base Bundle  |
| RCB-CC-R           | RCB-CC-R           | RCB Companion Card, Redundant  |
| RCB-CC-S           | RCB-CC-S           | RCB Companion Card, Spare  |
| RCB-PTX-X6-32G-BB  | RCB-PTX-X6-32G-BB  | Integrated 2.0 GHz 6 core PTX3K Routing Engine, Control board and CCG, Base Bundle   |
| RCB-PTX-X6-32G-R   | RCB-PTX-X6-32G-R   | Integrated 2.0 GHz 6 core PTX3K Routing Engine, Control board and CCG, Redundant   |
| RCB-PTX-X6-32G-S   | RCB-PTX-X6-32G-S   | Integrated 2.0 GHz 6 core PTX3K Routing Engine, Control board and CCG, Spare   |
| RCB-PTX-X6-64G-BB  | RCB-PTX-X6-64G-BB  | Integrated 2.0 GHz 6 core PTX Routing Engine , Control board and CCG, Base Bundle  |
| RCB-PTX-X6-64G-R   | RCB-PTX-X6-64G-R   | Integrated 2.0 GHz 6 core PTX Routing Engine , Control board and CCG, Redundant  |
| RCB-PTX-X6-64G-S   | RCB-PTX-X6-64G-S   | Integrated 2.0 GHz 6 core PTX Routing Engine , Control board and CCG, Spare  |
| RCB-PTX-X6-LT-S    | RCB-PTX-X6-LT-S    | Integrated 2.0 GHz 6 core 64G PTX Routing Engine , Control board and CCG, Limited Encryption Version, Spare                          |
| RE-MX2000-1800X4-R | RE-MX2000-1800X4-R | MX2000 Routing Engine and Control Board, Quad Core 1.8GHz with 16G Memory, Redundant Option  |

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| RE-MX2000-1800X4-S | RE-MX2000-1800X4-S     | MX2000 Routing Engine and Control Board, Quad Core 1.8GHz with 16G Memory, Spare   |
| REMX2008-X8-128G   | REMX2008-X8-128G       | MX2008 RE, 8x2.1GHz, 128G, Spare   |
| REMX2008X8-128G-BB | REMX2008X8-128G-BB     | MX2008 RE, 8x2.1GHz, 128G, Base  |
| REMX2008-X8-128G-R | REMX2008-X8-128G-R     | MX2008 RE, 8x2.1GHz, 128G, Redundant   |
| REMX2008-X8-64G-BB | REMX2008-X8-64G-BB     | MX2008 RE, 8x2.1GHz,64G, Base  |
| REMX2008-X8-64G-LT | REMX2008-X8-64G-LT     | MX2008 RE, 8x2.1GHz, 64G, Limited, Spare   |
| REMX2008X864GLT-BB | REMX2008X864GLT-BB     | MX2008 Routing Engine and Control Board, 8 Core 2.1Ghz with 64G Memory, Limited Encryption Version, Base                   |
| REMX2008X864GLT-R  | REMX2008X864GLT-R      | MX2008 Routing Engine and Control Board, 8 Core 2.1Ghz with 64G Memory, Limited Encryption Version, Redundant              |
| REMX2008-X8-64G-R  | REMX2008-X8-64G-R      | MX2008 RE, 8x2.1GHz,64G, Redundant   |
| REMX2008-X8-64G-S  | REMX2008-X8-64G-S      | MX2008 RE, 8x2.1GHz,64G, Spare   |
| REMX2K-1800-32G-BB | REMX2K-1800-32G-BB     | MX2000 Routing Engine and Control Board, Quad Core 1.8GHz with 32G Memory, Base Bundle                                     |
| REMX2K-1800-32G-R  | REMX2K-1800-32G-R      | MX2000 Routing Engine and Control Board, Quad Core 1.8GHz with 32G Memory, Redundant Option                                |
| REMX2K-1800-32G-S  | REMX2K-1800-32G-S      | MX2000 Routing Engine and Control Board, Quad Core 1.8GHz with 32G Memory, Spare   |
| REMX2K-1800-32G-WB | REMX2K-1800-32G-WB     | MX2000 Routing Engine and Control Board, Quad Core 1800Ghz with 32G Memory, JUNOS-LTD Version, Base Bundle, MX2020, MX2010 |
| REMX2K-1800-32G-WR | REMX2K-1800-32G-WR     | MX2000 Routing Engine and Control Board, Quad Core 1800Ghz with 32G Memory, JUNOS-LTD Version, Redundant, MX2020, MX2010   |
| REMX2K-1800-32G-WS | REMX2K-1800-32G-WS     | MX2000 Routing Engine and Control Board, Quad Core 1800Ghz with 32G Memory, JUNOS-LTD Version, Spares, MX2020, MX2010      |
| RE-MX2K-1800X4-BB  | RE-MX2000-1800X4-BB    | MX2000 Routing Engine and Control Board, Quad Core 1.8GHz with 16G Memory, Base Bundle                                     |
| RE-MX2K-1800X4WWBB | RE-MX2000-1800X4-WW-BB | MX2000 Routing Engine and Control Board, Quad Core 1800Ghz with 16G Memory, JUNOS-LTD Version, Base Bundle                 |
| RE-MX2K-1800X4WW-R | RE-MX2000-1800X4-WW-R  | MX2000 Routing Engine and Control Board, Quad Core 1800Ghz with 16G Memory, JUNOS-LTD Version, Redundant                   |
| RE-MX2K-1800X4WW-S | RE-MX2000-1800X4-WW-S  | MX2000 Routing Engine and Control Board, Quad Core 1800Ghz with 16G Memory, JUNOS-LTD Version, Spare                       |
| REMX2K-X8-128G-S-B | REMX2K-X8-128G-S-B     | Routing Engine - 8 Core 2.3GHz with 128G Memory, Secure Boot, Base Bundle for MX2020/MX2010                                |
| REMX2K-X8-128G-S-R | REMX2K-X8-128G-S-R     | Routing Engine - 8 Core 2.3GHz with 128G Memory, Secure Boot, Redundant for MX2020/MX2010                                  |
| REMX2K-X8-128G-S-S | REMX2K-X8-128G-S-S     | Routing Engine - 8 Core 2.3GHz with 128G Memory, Secure Boot, Spare for MX2020/MX2010                                      |
| REMX2K-X8-64G-BB   | REMX2K-X8-64G-BB       | MX2010/MX2020 Routing Engine and Control Board, 8 Core 2.3Ghz with 64G Memory, Base Bundle                                 |
| REMX2K-X8-64G-LT-B | REMX2K-X8-64G-LT-B     | MX2010/MX2020 Routing Engine and Control Board, 8 Core 2.3Ghz with 64G Memory, Limited Encryption Version, Base Bundle     |

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| REMX2K-X8-64G-LT-R | REMX2K-X8-64G-LT-R     | MX2010/MX2020 Routing Engine and Control Board, 8 Core 2.3Ghz with 64G Memory, Limited Encryption Version, Redundant |
| REMX2K-X8-64G-LT-S | REMX2K-X8-64G-LT-S     | MX2010/MX2020 Routing Engine and Control Board, 8 Core 2.3Ghz with 64G Memory, Limited Encryption Version, Spare     |
| REMX2K-X8-64G-R    | REMX2K-X8-64G-R        | MX2010/MX2020 Routing Engine and Control Board, 8 Core 2.3Ghz with 64G Memory, Redundant                             |
| REMX2K-X8-64G-S    | REMX2K-X8-64G-S        | MX2010/MX2020 Routing Engine and Control Board, 8 Core 2.3Ghz with 64G Memory, Spare                                 |
| RE-PTX-X8-128G-S-B | RE-PTX-X8-128G-S-B     | PTX Routing Engine , 8 core 2.3Ghz with 128G Memory, Secure Boot, Base Bundle for PTX5K                              |
| RE-PTX-X8-128G-S-R | RE-PTX-X8-128G-S-R     | PTX Routing Engine , 8 core 2.3Ghz with 128G Memory, Secure Boot, Redundant for PTX5K                                |
| RE-PTX-X8-128G-S-S | RE-PTX-X8-128G-S-S     | PTX Routing Engine , 8 core 2.3Ghz with 128G Memory, Secure Boot, Spare for PTX5K                                    |
| RE-PTX-X8-64G-BB   | RE-PTX-X8-64G-BB       | PTX Routing Engine , 8 core 2.3Ghz with 64G Memory, Base Bundle  |
| RE-PTX-X8-64G-R    | RE-PTX-X8-64G-R        | PTX Routing Engine , 8 core 2.3Ghz with 64G Memory, Redundant  |
| RE-PTX-X8-64G-S    | RE-PTX-X8-64G-S        | PTX Routing Engine , 8 core 2.3Ghz with 64G Memory, Spare RE   |
| RE-S-1800X4-16G-BB | RE-S-1800X4-16G-BB     | Routing Engine - Quad Core 1.8GHz with 16G Memory, Base Bundle, for MX   |
| RE-S-1800X4-16G-R  | RE-S-1800X4-16G-R      | Routing Engine - Quad Core 1.8GHz with 16G Memory, Redundant RE, for MX  |
| RE-S-1800X4-16G-S  | RE-S-1800X4-16G-S      | Routing Engine - Quad Core 1.8GHz with 16G Memory, Spare for MX  |
| RE-S1800X416GUPGBB | RE-S-1800X4-16G-UPG-BB | Routing Engine - Quad Core 1.8GHz with 16G Memory, Upgrade for Base Bundle, for MX                                   |
| RE-S-1800X416GWW-S | RE-S-1800X4-16G-WW-S   | Routing Engine, Quad Core 1800Ghz with 16G Memory, JUNOS-LTD Version, MX series                                      |
| RE-S-1800X4-32G-BB | RE-S-1800X4-32G-BB     | Routing Engine - Quad Core 1.8GHz with 32G Memory, Base Bundle, for MX   |
| RE-S-1800X4-32G-R  | RE-S-1800X4-32G-R      | Routing Engine - Quad Core 1.8GHz with 32G Memory, Redundant RE, for MX  |
| RE-S-1800X4-32G-S  | RE-S-1800X4-32G-S      | Routing Engine - Quad Core 1.8GHz with 32G Memory, Spare for MX  |
| RE-S-1800X4-32G-UB | RE-S-1800X4-32G-UB     | Routing Engine - Quad Core 1.8GHz with 32G Memory, Upgrade for Base Bundle, for MX                                   |
| RE-S-1800X4-32G-WS | RE-S-1800X4-32G-WS     | Routing Engine, Quad Core 1800Ghz with 32G Memory, JUNOS-LTD Version, MX240,MX480,MX960                              |
| RE-S-MX104-BB      | RE-S-MX104-BB          | Routing Engine for MX104 and 4GB Memory, Base Bundle, Altius-MX104, MX Series  |
| RE-S-MX104-R       | RE-S-MX104-R           | Routing Engine For MX104 and 4GB Memory, Redundant, Altius-MX104, MX Series  |
| RE-S-MX104-S       | RE-S-MX104-S           | Routing Engine for MX104 and 4GB Memory, Spares, Altius-MX104  |
| RE-S-MX104-WW-BB   | RE-S-MX104-WW-BB       | Routing engine for MX104 and 4GB Memory, Base bundle (JUNOS-LTD)), Altius-MX104, MX Series                           |
| RE-S-MX104-WW-R    | RE-S-MX104-WW-R        | Routing Engine for MX104 and 4GB Memory, Redundant (JUNOS-LTD), Altius-MX104, MX-Series                              |

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| RE-S-MX104-WW-S    | RE-S-MX104-WW-S    | Routing Engine for MX104 and 4GB Memory, Spares (JUNOS-LTD), Altius-MX104, MX series                                 |
| RE-S-X6-128G-K-BB  | RE-S-X6-128G-K-BB  | Routing Engine - 6 Core 2.0GHz with 128G Memory, TPM 2.0, Secure Boot, Secure ZTP, Base Bundle for MX240/MX480/MX960 |
| RE-S-X6-128G-K-R   | RE-S-X6-128G-K-R   | Routing Engine - 6 Core 2.0GHz with 128G Memory, TPM 2.0, Secure Boot, Secure ZTP, Redundant for MX240/MX480/MX960   |
| RE-S-X6-128G-K-S   | RE-S-X6-128G-K-S   | Routing Engine - 6 Core 2.0GHz with 128G Memory, TPM 2.0, Secure Boot, Secure ZTP, Spare for MX240/MX480/MX960       |
| RE-S-X6-128G-LT-BB | RE-S-X6-128G-LT-BB | Routing Engine - 6 Core 2.0GHz with 128G Memory, Limited Encryption Version, Base Bundle, for MX240/MX480/MX960      |
| RE-S-X6-128G-LT-R  | RE-S-X6-128G-LT-R  | Routing Engine - 6 Core 2.0GHz with 128G Memory, Limited Encryption Version, Redundant, for MX240/MX480/MX960        |
| RE-S-X6-128G-LT-S  | RE-S-X6-128G-LT-S  | Routing Engine - 6 Core 2.0GHz with 128G Memory, Limited Encryption Version, Spare, for MX240/MX480/MX960            |
| RE-S-X6-128G-S-BB  | RE-S-X6-128G-S-BB  | Routing Engine - 6 Core 2.0GHz with 128G Memory, Secure Boot, Base Bundle for MX240/MX480/MX960                      |
| RE-S-X6-128G-S-R   | RE-S-X6-128G-S-R   | Routing Engine - 6 Core 2.0GHz with 128G Memory, Secure Boot, Redundant for MX240/MX480/MX960                        |
| RE-S-X6-128G-S-S   | RE-S-X6-128G-S-S   | Routing Engine - 6 Core 2.0GHz with 128G Memory, Secure Boot, Spare for MX240/MX480/MX960                            |
| RE-S-X6-64G-BB     | RE-S-X6-64G-BB     | Routing Engine - 6 Core 2.0GHz with 64G Memory, Base Bundle, for MX240/MX480/MX960                                   |
| RE-S-X6-64G-LT-BB  | RE-S-X6-64G-LT-BB  | Routing Engine - 6 Core 2.0GHz with 64G Memory, Limited Encryption Version, Base Bundle, for MX240/MX480/MX960       |
| RE-S-X6-64G-LT-R   | RE-S-X6-64G-LT-R   | Routing Engine - 6 Core 2.0GHz with 64G Memory, Limited Encryption Version, Redundant, for MX240/MX480/MX960         |
| RE-S-X6-64G-LT-S   | RE-S-X6-64G-LT-S   | Routing Engine - 6 Core 2.0GHz with 64G Memory, Limited Encryption Version, Spare, for MX240/MX480/MX960             |
| RE-S-X6-64G-R      | RE-S-X6-64G-R      | Routing Engine - 6 Core 2.0GHz with 64G Memory, Redundant RE, for MX240/MX480/MX960                                  |
| RE-S-X6-64G-S      | RE-S-X6-64G-S      | Routing Engine - 6 Core 2.0GHz with 64G Memory, Spare, for MX240/MX480/MX960   |
| RE-S-X6-64G-UB     | RE-S-X6-64G-UB     | Routing Engine - 6 Core 2.0GHz with 64G Memory, Upgrade for Base Bundle, for MX960/MX480/MX240                       |
| SAS900HDD10K       | SAS900HDD10K       | 900GB 10Krpm SAS HDD   |
| SCBE2-MX-BB        | SCBE2-MX-BB        | Enhanced MX Switch Control Board, Base Bundle  |
| SCBE2-MX-R         | SCBE2-MX-R         | Enhanced MX Switch Control Board, Redundant  |
| SCBE2-MX-S         | SCBE2-MX-S         | Enhanced MX Switch Control Board, Spare  |
| SCBE3-MX-BB        | SCBE3-MX-BB        | Enhanced MX Switch Control Board, Base Bundle  |
| SCBE3-MX-R         | SCBE3-MX-R         | Enhanced MX Switch Control Board, Redundant  |
| SCBE3-MX-S         | SCBE3-MX-S         | Enhanced MX Switch Control Board, Spare  |
| SCBE-MX-BB         | SCBE-MX-BB         | Enhanced MX Switch Control Board   |

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| SCBE-MX-R          | SCBE-MX-R          | Enhanced MX Switch Control Board  |
| SCBE-MX-S          | SCBE-MX-S          | Enhanced MX Switch Control Board  |
| SDD-100G-1M        | SDD-100G-1M        | SFP-DD, 100GE Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 deg C)                                |
| SDD-100G-2M        | SDD-100G-2M        | SFP-DD, 100GE Direct Attach Copper Cable, 2 meters, Standard Temperature (0 through 70 deg C)                               |
| SDD-100G-3M        | SDD-100G-3M        | SFP-DD, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 deg C)                               |
| SDD-100G-DR        | SDD-100G-DR        | SFP-DD, 100GBASE-DR, SMF 500m, Standard Temperature (0 through 70 deg C), Duplex LC connector                               |
| SDD-100G-ER1-40    | SDD-100G-ER1-40    | SFP-DD, 100G ER1, SMF 40 km, Standard Temperature (0 through 70 deg C), Duplex LC connector                                 |
| SDD-100G-FR1       | SDD-100G-FR1       | SFP-DD, 100GBASE-FR1, SMF 2 km, Standard Temperature (0 through 70 deg C), Duplex LC connector                              |
| SDD-100G-LR1       | SDD-100G-LR1       | SFP-DD, 100GBASE-LR1, SMF 10 km, Standard Temperature (0 through 70 deg C), Duplex LC connector                             |
| SDD-100G-SR1P2     | SDD-100G-SR1P2     | SFP56-DD, 100G-SR1.2 BiDi, MMF OM5 150m, Standard Temperature (0 through 70 deg C), LC connector                            |
| SFP-10G-25G-LR     | SFP-10G-25G-LR     | SFP28, 25GBASE-LR / 10G-LR, SMF 10km, Standard Temperature (0 to 70 deg C), Duplex LC connector                             |
| SFP-10G-25G-SR     | SFP-10G-25G-SR     | SFP28, 25GBASE-SR / 10G-SR, MMF, Standard Temperature (0 to 70 deg C), Duplex LC connector                                  |
| SFP-10G-LRM-C      | SFP-10G-LRM-C      | SFP+, 10G, MMF 220m and SMF 300m, Standard Temperature (-5 through 85 Deg C), Duplex LC connector                           |
| SFP-1FE-FX         | SFP-1FE-FX         | SFP, 100BASE-FX for Routing Platforms, MMF 2 km, Extended Temperature (-5 through 70 DEGREE C), Duplex LC connector         |
| SFP-1GE-FE-E-T     | SFP-1GE-FE-E-T     | SFP, 10/100/1000BASE-T, Cat 5e 100 meters, Industrial Temperature (-40 through 85 DEGREE C), RJ-45 connector                |
| SFP-1GE-FE-E-T-BC  | SFP-1GE-FE-E-T-BC  | SFP Tri-rate Copper SFP, Finisar based, Bell Canada   |
| SFP-1GE-LH         | SFP-1GE-LH         | SFP, 1000BASE-LH for Routing Platforms, SMF 70 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector    |
| SFP-1GE-LX         | SFP-1GE-LX         | SFP, 1000BASE-LX, SMF 10 km or MMF 550 meters, Extended Temperature (-5 through 70 DEGREE C), Duplex LC connector           |
| SFP-1GE-SX         | SFP-1GE-SX         | SFP, 1000BASE-SX, MMF 500 meters, Extended Temperature (-10 through 85 DEGREE C), Duplex LC connector                       |
| SFP-1GE-SX-IT      | SFP-1GE-SX-IT      | SFP, 1000BASE-SX, MMF 500 meters, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                     |
| SFP-1GE-T          | SFP-1GE-T          | SFP, 1000BASE-T for Routing Platforms, Cat 5e 100 meters, Industrial Temperature (-40 through 85 DEGREE C), RJ-45 connector |
| SFP-1G-LH-C        | SFP-1G-LH-C        | SFP, 1G, SMF 70km, Industrial Temperature (-40 through 85 DegC), Duplex LC connector  |
| SFP-1G-LX-C        | SFP-1G-LX-C        | SFP, 1G, SMF 10km and MMF 550m, Extended Temperature (-5 through 70 DegC), Duplex LC connector                              |
| SFP-1G-SX-C        | SFP-1G-SX-C        | SFP, 1G, FDDI 220m and OM1 275m/OM2 MMF 550m, Extended Temperature (-10 through 85 DegC), Duplex LC connector               |
| SFP-1GT13R14BX10-I | SFP-1GT13R14BX10-I | SFP, 1GE BX10D, Tx 1310 nm, Rx 1490 nm, SMF 10 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector    |

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| SFP-1GT13R15BX10-I | SFP-1GT13R15BX10-I | SFP, 1GE Bi-directional (Juniper Networks Proprietary), Tx 1310 nm, Rx 1550 nm, SMF 10 km, Industrial Temperature (-40 through 85 DE |
| SFP-1GT13R15BX40-I | SFP-1GT13R15BX40-I | SFP, 1GE Bi-directional (Juniper Networks Proprietary), Tx 1310 nm, Rx 1550 nm, SMF 40 km, Industrial Temperature (-40 through 85 DE |
| SFP-1GT14R13BX10-I | SFP-1GT14R13BX10-I | SFP, 1GE BX10D, Tx 1490 nm, Rx 1310 nm, SMF 10 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector             |
| SFP-1GT15R13BX10-I | SFP-1GT15R13BX10-I | SFP, 1GE Bi-directional (Juniper Networks Proprietary), Tx 1550 nm, Rx 1310 nm, SMF 10 km, Industrial Temperature (-40 through 85 DE |
| SFP-1GT15R13BX40-I | SFP-1GT15R13BX40-I | SFP, 1GE Bi-directional (Juniper Networks Proprietary), Tx 1550 nm, Rx 1310 nm, SMF 40 km, Industrial Temperature (-40 through 85 DE |
| SFP-1G-T-C         | SFP-1G-T-C         | SFP, 1G, Copper 100m, Standard Temperature (0 through 70 DegC), RJ-45 connector  |
| SFP-1OC48-IR       | SFP-1OC48-IR       | SFP, OC48 2.5GE, SMF 15 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                                    |
| SFP-1OC48-LR       | SFP-1OC48-LR       | SFP, OC48 2.5GE, SMF 80 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                                    |
| SFP-1OC48-SR       | SFP-1OC48-SR       | SFP, OC48 2.5GE, SMF 2 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                                     |
| SFP-25G-BX10D-I    | SFP-25G-BX10D-I    | SFP28, 25GE BX10D (Bi-directional), Tx 1330nm, Rx 1270nm, SMF 10 km, Industrial Temperature (-40 through 85 deg C), Duplex LC connec |
| SFP-25G-BX10U-I    | SFP-25G-BX10U-I    | SFP28, 25GE BX10U (Bi-directional), Tx 1270nm, Rx 1330nm, SMF 10 km, Industrial Temperature (-40 through 85 deg C), Duplex LC connec |
| SFP-25G-BX40D-I    | SFP-25G-BX40D-I    | SFP28, 25GE BX40D (Bi-directional), Tx 1310nm, Rx 1270nm, SMF 40 km, Industrial Temperature (-40 through 85 dec C), Duplex LC connec |
| SFP-25G-BX40U-I    | SFP-25G-BX40U-I    | SFP28, 25GE BX40U (Bi-directional), Tx 1270nm, Tx 1310nm, SMF 40 km, Industrial Temperature (-40 through 85 dec C), Duplex LC connec |
| SFP-25G-CWDM1271-I | SFP-25G-CWDM1271-I | SFP28, 25GBASE-CWDM-10, 1271nm, SMF 10 km, Industrial Temperature (-40 through 85 dec C), Duplex LC connector                        |
| SFP-25G-CWDM1291-I | SFP-25G-CWDM1291-I | SFP28, 25GBASE-CWDM-10, 1291nm, SMF 10 km, Industrial Temperature (-40 through 85 dec C), Duplex LC connector                        |
| SFP-25G-CWDM1311-I | SFP-25G-CWDM1311-I | SFP28, 25GBASE-CWDM-10, 1311nm, SMF 10 km, Industrial Temperature (-40 through 85 dec C), Duplex LC connector                        |
| SFP-25G-CWDM1331-I | SFP-25G-CWDM1331-I | SFP28, 25GBASE-CWDM-10, 1331nm, SMF 10 km, Industrial Temperature (-40 through 85 dec C), Duplex LC connector                        |
| SFP-25G-DAC-50CM   | SFP-25G-DAC-50CM   | SFP-28 to SFP-28, 25G, Direct Attach Cable, 50cm, Standard Temperature (0 through 70 deg C)  |
| SFP-25G-ER-IT      | SFP-25G-ER-IT      | SFP28, 25GBASE-ER, SMF 40km, Industrial Temperature (-40 through 85 dec C), Duplex LC connector                                      |
| SFP-25G-LR-C       | SFP-25G-LR-C       | SFP28, 25GBASE-LR, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                                      |
| SFP-25G-LR-IT      | SFP-25G-LR-IT      | SFP28, 25GBASE-LR, SMF 10 km, Industrial Temperature (-40 through 85 deg C), Duplex LC connector                                     |
| SFP-25G-SR-C       | SFP-25G-SR-C       | SFP28, 25GBASE-SR, MMF OM3 70 meters and OM4 100 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector           |
| SFP-25G-SR-IT      | SFP-25G-SR-IT      | SFP28, 25GBASE-SR, MMF OM3 70 meters and OM4 100 meters, Industrial Temperature (-40 through 85 deg C), Duplex LC connector          |
| SFP-50G-BR40D      | SFP-50G-BR40D      | SFP56, 50GE BR40D (Bi-directional), 1306nm to 1322nm, SMF 40 km, Standard Temperature (0 through 70 deg C), LC connector             |

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| SFP-50G-BR40U      | SFP-50G-BR40U      | SFP56, 50GE BR40U (Bi-directional), 1281nm to 1297nm, SMF 40 km, Standard Temperature (0 through 70 deg C), LC connector            |
| SFP-50G-DAC-3M     | SFP-50G-DAC-3M     | SFP56 to SFP56 50G Direct Attach Cable (26AWG) 3M Standard Temperature (0 through 70 degC)  |
| SFP-50G-SR         | SFP-50G-SR         | SFP56,50G-SR, MMF Standard Temperature (0 through 70 degC, Duplex LC/PC Receptacle  |
| SFP-FE20KT13R15    | SFP-FE20KT13R15    | SFP, 100GBASE-BX, Tx 1310 nm, Rx 1550 nm, SMF 20 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector              |
| SFP-FE20KT15R13    | SFP-FE20KT15R13    | SFP, 100GBASE-BX, Tx 1550 nm, Rx 1310 nm, SMF 20 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector              |
| SFP-GE10KT13R14    | SFP-GE10KT13R14    | SFP, 1000BASE-BX, Tx 1310 nm, Tx 1490 nm, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector              |
| SFP-GE10KT13R15    | SFP-GE10KT13R15    | SFP, 1000BASE-BX, Tx 1310 nm, Tx 1550 nm, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector              |
| SFP-GE10KT14R13    | SFP-GE10KT14R13    | SFP, 1000BASE-BX, Tx 1490 nm, Tx 1310 nm, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector              |
| SFP-GE10KT15R13    | SFP-GE10KT15R13    | SFP, 1000BASE-BX, Tx 1550 nm, Tx 1310 nm, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector              |
| SFP-GE40KT13R14    | SFP-GE40KT13R14    | SFP, 1000BASE-BX, Tx 1310 nm, Rx 1490 nm, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Simplex LC connector             |
| SFP-GE40KT13R15    | SFP-GE40KT13R15    | SFP, 1000BASE-BX, Tx 1310, Rx 1550, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                    |
| SFP-GE40KT14R13    | SFP-GE40KT14R13    | SFP, 1000BASE-BX, Tx 1490 nm, Rx 1310 nm, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Simplex LC connector             |
| SFP-GE40KT15R13    | SFP-GE40KT15R13    | SFP, 1000BASE-BX, Tx 1550 , Rx 1310, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                   |
| SFP-GE80KCW1470-ET | SFP-GE80KCW1470-ET | SFP, GE CWDM 1471nm, -40-85C, CLEI  |
| SFP-GE80KCW1490-ET | SFP-GE80KCW1490-ET | SFP, GE CWDM 1491nm, -40-85C, CLEI  |
| SFP-GE80KCW1510-ET | SFP-GE80KCW1510-ET | SFP, GE CWDM 1511nm, -40-85C, CLEI  |
| SFP-GE80KCW1530-ET | SFP-GE80KCW1530-ET | SFP, GE CWDM 1531nm, -40-85C, CLEI  |
| SFP-GE80KCW1570-ET | SFP-GE80KCW1570-ET | SFP, GE CWDM 1571nm, -40-85C, CLEI  |
| SFP-GE80KCW1590-ET | SFP-GE80KCW1590-ET | SFP, GE CWDM 1591nm, -40-85C, CLEI  |
| SFP-GE80KCW1610-ET | SFP-GE80KCW1610-ET | SFP, GE CWDM 1611nm, -40-85C, CLEI  |
| SFP-GE80KT14R15    | SFP-GE80KT14R15    | SFP, 1GE Bi-directional (Juniper Networks Proprietary), Tx 1490 nm, Rx 1570 nm, SMF 80 km, Standard Temperature (0 through 70 DEGRE |
| SFP-GE80KT15R14    | SFP-GE80KT15R14    | SFP, 1GE Bi-directional (Juniper Networks Proprietary), Tx 1570 nm, Rx 1490 nm, SMF 80 km, Standard Temperature (0 through 70 DEGRE |
| SFP-GE-TDM-DS3     | SFP-GE-TDM-DS3     | SFP, 1GE, VCoP DS3 Smart Optic, 75 Ohms Coaxial Cable 450 ft, Industrial Temperature (-40 through 85 DEGREE C), Mini-Coax connector |
| SFP-GE-TDM-E1      | SFP-GE-TDM-E1      | SFP, 1GE TPOp T1 Smart Optic, 120 Ohms Twisted Pair 100 meters, Industrial Temperature (-40 through 85 DEGREE C), RJ-45 connector   |

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| SFP-GE-TDM-STM1    | SFP-GE-TDM-STM1    | SFP, 1GE, TSoP OC-3/STM-1 Smart Optic, SMF 15 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector              |
| SFP-GE-TDM-STM4    | SFP-GE-TDM-STM4    | SFP, 1GE, TSoP OC-12/STM-4 Smart Optic, SMF 15 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector             |
| SFP-GE-TDM-T1      | SFP-GE-TDM-T1      | SFP, 1GE TPOp T1 Smart Optic, 100 Ohms Twisted Pair 655 ft, Industrial Temperature (-40 through 85 DEGREE C), RJ-45 connector        |
| SFPP-10G-CWDM1471  | SFPP-10G-CWDM1471  | SFP+, 10GBASE-ZR CWDM 1471 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-CWDM1491  | SFPP-10G-CWDM1491  | SFP+, 10GBASE-ZR CWDM 1491 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-CWDM1511  | SFPP-10G-CWDM1511  | SFP+, 10GBASE-ZR CWDM 1511 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-CWDM1531  | SFPP-10G-CWDM1531  | SFP+, 10GBASE-ZR CWDM 1531 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-CWDM1551  | SFPP-10G-CWDM1551  | SFP+, 10GBASE-ZR CWDM 1551 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-CWDM1571  | SFPP-10G-CWDM1571  | SFP+, 10GBASE-ZR CWDM 1571 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-CWDM1591  | SFPP-10G-CWDM1591  | SFP+, 10GBASE-ZR CWDM 1591 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-CWDM1611  | SFPP-10G-CWDM1611  | SFP+, 10GBASE-ZR CWDM 1611 nm, SMF 70 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                          |
| SFPP-10G-DT-ZRC2   | SFPP-10G-DT-ZRC2   | SFP+, 10GBASE-ZR and OTN Tuneable Wavelengths, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector          |
| SFPP-10GE-BX10D-IT | SFPP-10GE-BX10D-IT | SFP+, 10GE BX10D (Bi-directional), Tx 1330nm, Rx 1270nm, SMF 10 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC con  |
| SFPP-10GE-BX10U-IT | SFPP-10GE-BX10U-IT | SFP+, 10GE BX10U (Bi-directional), Tx 1270nm, Rx 1330nm, SMF 10 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC con  |
| SFPP-10GE-BX40D-IT | SFPP-10GE-BX40D-IT | SFP+, 40GE BX40D (Bi-directional), Tx 1330nm, Rx 1270nm, SMF 40 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC conn |
| SFPP-10GE-BX40U-IT | SFPP-10GE-BX40U-IT | SFP+, 40GE BX40U (Bi-directional), Tx 1270nm, Rx 1330nm, SMF 40 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC conn |
| SFPP-10GE-DWDM-IT  | SFPP-10GE-DWDM-IT  | SFP+, 10GE ZR Tunable (Juniper Networks Proprietary), SMF 80 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connect |
| SFPP-10GE-ER       | SFPP-10GE-ER       | SFP+ 10GE pluggable transceiver, SMF, 1550nm for 40KM transmission   |
| SFPP-10GE-ER-IT    | SFPP-10GE-ER-IT    | SFP+, 10GBASE-ER, SMF 40 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                                   |
| SFPP-10GE-ER-XT    | SFPP-10GE-ER-XT    | SFP+, 10GBASE-ER XT, SMF 40 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector                                    |
| SFPP-10GE-LR       | SFPP-10GE-LR       | SFP+ 10GE pluggable transceiver, SMF, 1310nm for 10KM transmission   |
| SFPP-10GE-LR-IT    | SFPP-10GE-LR-IT    | SFP+, 10GBASE-LR, SMF 10 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector                                   |
| SFPP-10GE-OLT      | SFPP-10GE-OLT      | SFP+ 10GE PON OLT (Bi-directional), Tx 1577 nm, Rx 1270 nm, SMF 20 km, Standard Temperature (0 through 70 DEGREE C), SC/UPC Connecto |
| SFPP-10GE-OLT-IT   | SFPP-10GE-OLT-IT   | SFP+ 10GE PON OLT (Bi-directional), Tx 1577 nm, Rx 1270 nm, SMF 20 km, Industrial Temperature (-40 through 85 DEGREE C), SC/UPC Conn |



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| SFPP-10G-ER-C      | SFPP-10G-ER-C      | SFP+, 10GBASE-ER, SMF 40 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector                                       |
| SFPP-10GE-SR       | SFPP-10GE-SR       | SFP+, 10GBASE-SR for Routing Platforms, MMF OM3 300 meters and OM4 400 meters, Standard Temperature (0 through 70 DEGREE C), Duplex  |
| SFPP-10GE-SR-IT    | SFPP-10GE-SR-IT    | SFP+, 10GBASE-SR, MMF OM3 300 meters and OM4 400 meters, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector       |
| SFPP-10GE-ZR       | SFPP-10GE-ZR       | SFP+, 10GBASE-ZR for Routing, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                           |
| SFPP-10GE-ZR-IT    | SFPP-10GE-ZR-IT    | SFP+, 10GE ZR (Juniper Networks Proprietary), SMF 80 km, Industrial Temperature (-40 through 85 DEGREE C), Duplex LC connector       |
| SFPP-10G-LR-C      | SFPP-10G-LR-C      | SFP+, 10GBASE-LR, SMF 10 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector                                       |
| SFPP-10G-LRT2-C    | SFPP-10G-LRT2-C    | SFP+, 10GBASE-LR Type 2, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                                |
| SFPP-10G-SR-C      | SFPP-10G-SR-C      | SFP+, 10GBASE-SR, MMF OM3 300 meters and OM4 400 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector           |
| SFPP-10G-SR-ET-C   | SFPP-10G-SR-ET-C   | SFP+, 10GBASE-SR and 10GBASE-SW, MMF OM3 300 meters and OM4 400 meters, Extended Temperature (-5 through 85 DEGREE C), Duplex LC con |
| SFPP-10G-T         | SFPP-10G-T         | SFP+, 10GE BASE-T, Copper, Standard Temperature (0 through 70 degC); RJ45 recepticle   |
| SFPP-10G-USR-C     | SFPP-10G-USR-C     | SFP+, 10GBASE-USR, MMF OM3 100 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                             |
| SFPP-10G-ZR-OTN-XT | SFPP-10G-ZR-OTN-XT | SFP+, 10GBASE-ZR and OTN Dual-Rate, SMF 80 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                     |
| SFPP-XGE-TDM-STM16 | SFPP-XGE-TDM-STM16 | SFP+, STM-16/OC-48 TSoP, 2.488 GE, SMF 2 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector                       |
| SIB2-I-PTX5K-BB    | SIB2-I-PTX5K-BB    | PTX5000 Switch Interface Board, 2nd generation, base bundle  |
| SIB2-I-PTX5K-S     | SIB2-I-PTX5K-S     | PTX5000 Switch Interface Board, 2nd generation, spare  |
| SIB3-PTX5K-BB      | SIB3-PTX5K-BB      | PTX5000 Switch Interface Board, 3rd Generation, Base Bundle  |
| SIB3-PTX5K-S       | SIB3-PTX5K-S       | PTX5000 Switch Interface Board, 3rd Generation, Spare  |
| SIB3-SFF-PTX-BB    | SIB3-SFF-PTX-BB    | PTX3000 3rd Generation Small Form Factor Fabric Module, Base Bundle  |
| SIB3-SFF-PTX-S     | SIB3-SFF-PTX-S     | PTX3000 3rd Generation Small Form Factor Fabric Module, Spare  |
| SIB-SFF-PTX-240-BB | SIB-SFF-PTX-240-BB | PTX Small Form Factor Fabric Module, base bundle   |
| SIB-SFF-PTX-240-R  | SIB-SFF-PTX-240-R  | PTX Small Form Factor Fabric Module, redundant   |
| SIB-SFF-PTX-240-S  | SIB-SFF-PTX-240-S  | PTX SFF SIB module Spare   |
| SRP_I/O            | SRP_I/O            | P/C SWITCH & ROUTE PROCESSOR INTERFACE ADAPTER   |
| SRX1500-CHAS       | SRX1500-CHAS       | SRX1500 Chassis with 16x1G, 4x10G (SFP+) on-board ports, 120GB SSD. No power supply included.  |
| SRX1600-CHAS       | SRX1600-CHAS       | SRX1600 Chassis hardware, no power supply, no fan tray, Junos Software Base (Firewall, NAT, IPsec, Routing, MPLS and Switching)      |

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| SRX2300-CHAS      | SRX2300-CHAS      | SRX2300 Chassis hardware, no power supply, no fan tray, Junos Software Base (Firewall, NAT, IPsec, Routing, MPLS and Switching)      |
| SRX300            | SRX300            | SRX300 (Hardware Only, require SRX300-JSB or SRX300-JSE to complete the System) with 8GE (w 2x SFP), 4G RAM, 8G Flash. Includes exte |
| SRX300-C          | SRX300-C          | Comcast specific SRX300 SKUs with single SRX300 appliance  |
| SRX300-PWR-60W    | SRX300-PWR-60W    | 60W power adapter for SRX300. Power adapter only, power cable need to be ordered separately  |
| SRX300-SYS-JB     | SRX300-SYS-JB     | SRX300 Services Gateway includes hardware (8GE, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Base (Firewall, NAT, I |
| SRX300-SYS-JB-T   | SRX300-SYS-JB-T   | SRX300 Services Gateway includes hardware (8GE, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Base (Firewall, NAT, I |
| SRX300-SYS-JB-U   | SRX300-SYS-JB-U   | SRX300 Services Gateway includes hardware (8GE, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Base (Firewall, NAT, I |
| SRX300-SYS-JE     | SRX300-SYS-JE     | SRX300 Services Gateway includes hardware (8GE, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Enhanced (Firewall, NA |
| SRX300-TAA        | SRX300-TAA        | SRX300 (Hardware Only, require SRX300-JSB or SRX300-JSE to complete the System) with 8GE (w 2x SFP), 4G RAM, 8G Flash. Includes exte |
| SRX320            | SRX320            | SRX320 (Hardware Only, require SRX320-JSB or SRX320-JSE to complete the System) with 8GE (w 2x SFP), 4G RAM, 8G Flash and 2x MPIM s  |
| SRX320-POE        | SRX320-POE        | SRX320 (Hardware Only, require SRX320-JSB or SRX320-JSE to complete the System) with 8GE (w 2x SFP), 4G RAM, 8G Flash, 2x MPIM slots |
| SRX320-POE-TAA    | SRX320-POE-TAA    | SRX320 Services Gateway with 4G RAM, 8G eUSB, 8x1GE (w 2x SFP) on-board ports, 2x MPIM slots, 6x POE+ ports and external power suppl |
| SRX320-P-PWR-280W | SRX320-P-PWR-280W | 280W power adapter for SRX320-POE. Provide power to 6 POE+ports. Power adapter only, power cable need to be ordered separately       |
| SRX320-PWR-75W    | SRX320-PWR-75W    | 75W power adapter for SRX320. Power adapter only, power cable need to be ordered separately  |
| SRX320-SYS-JB     | SRX320-SYS-JB     | SRX320 Services Gateway includes hardware (8GE, 2x MPIM slots, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Base (F |
| SRX320-SYS-JB-P   | SRX320-SYS-JB-P   | SRX320 Services Gateway includes hardware (8GE, 6-port POE+, 2x MPIM slots, 4G RAM, 8G Flash, power adapter and cable) and Junos Sof |
| SRX320-SYS-JB-P-T | SRX320-SYS-JB-P-T | SRX320 Services Gateway includes hardware (8GE, 6-port POE+, 2x MPIM slots, 4G RAM, 8G Flash, power adapter and cable) and Junos Sof |
| SRX320-SYS-JB-P-U | SRX320-SYS-JB-P-U | SRX320 Services Gateway includes hardware (8GE, 6-port POE+, 2x MPIM slots, 4G RAM, 8G Flash, power adapter and cable) and Junos Sof |
| SRX320-SYS-JB-T   | SRX320-SYS-JB-T   | SRX320 Services Gateway includes hardware (8GE, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Base (Firewall, NAT, I |
| SRX320-SYS-JB-U   | SRX320-SYS-JB-U   | SRX320 Services Gateway includes hardware (8GE, 2x MPIM slots, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Base (F |
| SRX320-SYS-JE     | SRX320-SYS-JE     | SRX320 Services Gateway includes hardware (8GE, 2x MPIM slots, 4G RAM, 8G Flash, power adapter and cable) and Junos Software Enhance |
| SRX320-SYS-JE-P   | SRX320-SYS-JE-P   | SRX320 Services Gateway includes hardware (8GE, 6-port POE+, 2x MPIM slots, 4G RAM, 8G Flash, power adapter and cable) and Junos Sof |
| SRX320-TAA        | SRX320-TAA        | SRX320 Services Gateway with 4G RAM, 8G eUSB, 8x1GE (w 2x SFP) on-board ports, 2x MPIM slots and external power supply adapter. TAA  |
| SRX340            | SRX340            | SRX340 (Hardware Only, require SRX340-JSB or SRX340-JSE to complete the System) with 16GE (w 8x SFP), 4G RAM, 8G Flash and 4x MPIM s |

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| SRX340-SYS-JB      | SRX340-SYS-JB      | SRX340 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software Ba |
| SRX340-SYS-JB-C    | SRX340-SYS-JB-C    | SRX340 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software Ba |
| SRX340-SYS-JB-T    | SRX340-SYS-JB-T    | SRX340 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software Ba |
| SRX340-SYS-JE      | SRX340-SYS-JE      | SRX340 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software En |
| SRX340-TAA         | SRX340-TAA         | SRX340 Services Gateways with 4G RAM, 8G eUSB, 16x1GE (16x SFP) on-board ports & internal PSU. TAA compliant                         |
| SRX345             | SRX345             | SRX345 (Hardware Only, require SRX345-JSB or SRX345-JSE to complete the System) with 16GE (w 8x SFP), 4G RAM, 8G Flash and 4x MPIM s |
| SRX345-DC          | SRX345-DC          | SRX345 (Hardware Only, require SRX345-JSB or SRX345-JSE to complete the System) with 16GE (w 8x SFP), 4G RAM, 8G Flash and 4x MPIM s |
| SRX345-DC-TAA      | SRX345-DC-TAA      | SRX345 (Hardware Only, require SRX345-JSB or SRX345-JSE to complete the System) with 16GE (w 8x SFP), 4G RAM, 8G Flash and 4x MPIM s |
| SRX345-DUAL-AC     | SRX345-DUAL-AC     | SRX345 (Hardware Only, require SRX345-JSB or SRX345-JSE to complete the System) with 16GE (w 8x SFP), 4G RAM, 8G Flash and 4x MPIM s |
| SRX345-DUAL-AC-T   | SRX345-DUAL-AC-T   | SRX345 TAA (Hardware Only, require SRX345-JSB or SRX345-JSE to complete the System) with 16GE (w 8x SFP), 4G RAM, 8G Flash and 4x MP |
| SRX345-SYS-JB      | SRX345-SYS-JB      | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software Ba |
| SRX345-SYS-JB-2AC  | SRX345-SYS-JB-2AC  | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, dual AC power supply, cable and RMK) and Junos Sof |
| SRX345-SYS-JB-2ACT | SRX345-SYS-JB-2ACT | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, dual AC power supply, cable and RMK) and Junos Sof |
| SRX345-SYS-JB-2ACU | SRX345-SYS-JB-2ACU | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, dual AC power supply, cable and RMK) and Junos Sof |
| SRX345-SYS-JB-DC   | SRX345-SYS-JB-DC   | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, Single DC PSU, cable and RMK) and Junos Software B |
| SRX345-SYS-JB-DC-T | SRX345-SYS-JB-DC-T | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, Single DC PSU, cable and RMK) and Junos Software B |
| SRX345-SYS-JB-DC-U | SRX345-SYS-JB-DC-U | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, Single DC PSU, cable and RMK) and Junos Software B |
| SRX345-SYS-JB-T    | SRX345-SYS-JB-T    | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software Ba |
| SRX345-SYS-JB-U    | SRX345-SYS-JB-U    | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software Ba |
| SRX345-SYS-JE      | SRX345-SYS-JE      | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, power supply, cable and RMK) and Junos Software En |
| SRX345-SYS-JE-2AC  | SRX345-SYS-JE-2AC  | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, dual AC power supply, cable and RMK) and Junos Sof |
| SRX345-SYS-JE-DC   | SRX345-SYS-JE-DC   | SRX345 Services Gateway includes hardware (16GE, 4x MPIM slots, 4G RAM, 8G Flash, Single DC PSU, cable and RMK) and Junos Software B |
| SRX345-TAA         | SRX345-TAA         | SRX345 Services Gateways with 4G RAM, 8G eUSB, 16x1GE (16x SFP) on-board ports & internal PSU. TAA compliant                         |
| SRX380-P-CHAS      | SRX380-P-CHAS      | SRX380 Chassis only does not include power supplies, cables or RMK   |

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| SRX380-P-SYS-JBACU | SRX380-P-SYS-JBACU | SRX380 Services Gateway includes hardware (16GE POE+, 4x10GE SFP+, 4x MPIM slots, 4G RAM, 100GB SSD, Single AC power supply, cable a |
| SRX4100-CHAS       | SRX4100-CHAS       | SRX4100 Chassis; no PSU and no Fan, JunOS Software Base Included   |
| SRX4200-CHAS       | SRX4200-CHAS       | SRX4200 Chassis; no PSU and no Fan, JunOS Software Base Included   |
| SRX4200-FAN        | SRX4200-FAN        | SRX4100/SRX4200 Fan Unit. A chassis requires 3x FAN Trays to operate. Fourth FAN Tray is redundant. Each FAN Tray has 2 FANs, but in |
| SRX4300-CHAS       | SRX4300-CHAS       | SRX4300 Chassis hardware, no power supply, no fan tray, Junos Software Base (Firewall, NAT, IPsec, Routing, MPLS and Switching) for  |
| SRX4600-CHAS       | SRX4600-CHAS       | SRX4600 Chassis Spare, no fans, no PEMs  |
| SRX5400-CHAS       | SRX5400-CHAS       | SRX5400 chassis, backplane installed, no fan, no power supply  |
| SRX5400-CRAFT      | SRX5400-CRAFT      | SRX5400 Craft Interface  |
| SRX5400-CRAFT-BB   | SRX5400-CRAFT-BB   | SRX5400 Craft Interface, Included in base  |
| SRX5400-FAN        | SRX5400-FAN        | SRX5400 Fan Tray   |
| SRX5400-FAN-BB     | SRX5400-FAN-BB     | SRX5400 Fan Tray, Included in base   |
| SRX5400-FLTR       | SRX5400-FLTR       | SRX5400 Replacement Fan Filter   |
| SRX5400-FLTR-BB    | SRX5400-FLTR-BB    | SRX5400 Filter Tray, Included in base  |
| SRX5400X-CHAS      | SRX5400X-CHAS      | SRX5400 Chassis spare, Enhanced midplane, Fan tray not included  |
| SRX5400X-CHAS-BB   | SRX5400X-CHAS-BB   | SRX5400 Chassis, Enhanced midplane, Included in base   |
| SRX550-CHAS-M      | SRX550-CHAS-M      | SRX550 Chassis with 4G DRAM, 8G CG only, no PS not included  |
| SRX5600-ADEF       | SRX5600-ADEF       | SRX5600 Air Deflector Kit  |
| SRX5600-CHAS       | SRX5600-CHAS       | SRX5600 chassis, backplane installed, Fan tray not included  |
| SRX5600-CRAFT      | SRX5600-CRAFT      | SRX5600 Craft Interface  |
| SRX5600E-CRAFT     | SRX5600E-CRAFT     | SRX5600E Craft Interface, Requires Junos 12.1X47-D15 onwards   |
| SRX5600E-CRAFT-BB  | SRX5600E-CRAFT-BB  | SRX5600E Craft Interface, Included in base   |
| SRX5600-FLTR-BB    | SRX5600-FLTR-BB    | SRX5600 Filter Tray, Included in base  |
| SRX5600-HC-FAN     | SRX5600-HC-FAN     | SRX5600 High Capacity Fan, Requires JUNOS 12.1X44-D10 onwards  |
| SRX5600-HC-FAN-BB  | SRX5600-HC-FAN-BB  | SRX5600 HC Fan Tray, Included in base  |
| SRX5600-HPWR-AC-BB | SRX5600-HPWR-AC-BB | SRX5600/5400 High Capacity AC Power Supply, Included in base   |

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| SRX5600-HPWR-AC-R  | SRX5600-HPWR-AC-R     | SRX5600/5400 High Capacity AC Power Supply, Configured option                            |
| SRX5600-HPWR-DC-BB | SRX5600-HPWR-DC-BB    | SRX5600/5400 High Capacity DC Power Supply, Included in base                             |
| SRX5600-HPWR-DC-R  | SRX5600-HPWR-DC-R     | SRX5600/5400 High Capacity DC Power Supply, Configured option                            |
| SRX5600-PS2400DC-S | SRX5600-PWR-2400-DC-S | SRX5400/5600 High Capacity DC Power supply for 2400W, Requires JUNOS 12.1X44-D10 onwards |
| SRX5600-PS2520AC-S | SRX5600-PWR-2520-AC-S | SRX5400/5600 High Capacity AC Power supply for 2520W, Requires JUNOS 12.1X44-D10 onwards |
| SRX5600X-CHAS      | SRX5600X-CHAS         | SRX5600 Chassis spare, Enhanced midplane, Fan tray not included                          |
| SRX5600X-CHAS-BB   | SRX5600X-CHAS-BB      | SRX5600 Chassis, Enhanced midplane, Included in base                                     |
| SRX5800-CHAS       | SRX5800-CHAS          | SRX5800 chassis, backplane installed, Fan trays not included                             |
| SRX5800-CRAFT      | SRX5800-CRAFT         | SRX5800 Craft interface  |
| SRX5800E-CRAFT     | SRX5800E-CRAFT        | SRX5800E Craft Interface, Requires JUNOS 12.1X47-D15 onwards                             |
| SRX5800E-CRAFT-BB  | SRX5800E-CRAFT-BB     | SRX5800 Craft Interface, Included in base  |
| SRX5800-HC-FAN     | SRX5800-HC-FAN        | SRX5800 high capacity fan tray, Requires JUNOS 12.1X44-D10 onwards                       |
| SRX5800-HC-FAN-BB  | SRX5800-HC-FAN-BB     | SRX5800 HC Fan Tray, Included in base  |
| SRX5800-HPWR-AC-BB | SRX5800-HPWR-AC-BB    | SRX5800 High Capacity AC Power Supply, Included in base                                  |
| SRX5800-HPWR-AC-R  | SRX5800-HPWR-AC-R     | SRX5800 High Capacity AC Power Supply, Configured option                                 |
| SRX5800-HPWR-DC-BB | SRX5800-HPWR-DC-BB    | SRX5800 High Capacity DC Power Supply, Included in base                                  |
| SRX5800-HPWR-DC-R  | SRX5800-HPWR-DC-R     | SRX5800 High Capacity DC Power Supply, Configured option                                 |
| SRX5800-PWR4100-AC | SRX5800-PWR-4100-AC   | SRX5800 high capacity AC power supply, Requires JUNOS 12.1X44-D10 onwards                |
| SRX5800-PWR4100DCS | SRX5800-PWR-4100-DC-S | SRX5800 High Capacity DC Power supply for 4200W, Requires JUNOS 12.1X44-D10 onwards      |
| SRX5800X-CHAS      | SRX5800X-CHAS         | SRX5800 Chassis spare, Enhanced midplane, Fan tray not included                          |
| SRX5800X-CHAS-BB   | SRX5800X-CHAS-BB      | SRX5800 Chassis, Enhanced midplane, Included in base                                     |
| SRX5K-IOC4-10G     | SRX5K-IOC4-10G        | 40 x 10GE SFP + port line card, Optics sold separately.                                  |
| SRX5K-IOC4-MRAT    | SRX5K-IOC4-MRAT       | 12 x QSFP+/QSFP28 multirate port line card. Optics sold separately.                      |
| SRX5K-MPC          | SRX5K-MPC             | MPC for 100GE, 40GE, 10GE, 1GE MIC cards, Supported by JUNOS release 12.1X46-D10 onwards |
| SRX5K-MPC3-100G10G | SRX5K-MPC3-100G10G    | SRX5K IOC3, 2x100GE and 4x10GE ports   |

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| SRX5K-MPC3-100G-BB | SRX5K-MPC3-100G-BB   | SRX5K IOC3, 2x100GE and 4x10GE ports, Included in base  |
| SRX5K-MPC3-100G-R  | SRX5K-MPC3-100G-R    | SRX5K IOC3, 2x100GE and 4x10GE ports, Configured option   |
| SRX5K-MPC3-40G10G  | SRX5K-MPC3-40G10G    | SRX5K IOC3, 6x40GE and 24x10GE ports  |
| SRX5K-MPC3-40G-BB  | SRX5K-MPC3-40G-BB    | SRX5K IOC3, 6x40GE and 24x10GE ports, Included in base  |
| SRX5K-MPC3-40G-R   | SRX5K-MPC3-40G-R     | SRX5K IOC3, 6x40GE and 24x10GE ports, Configured option   |
| SRX5K-MPC-BB       | SRX5K-MPC-BB         | SRX5K IOC2 for 100GE, 40GE, 10GE, 1GE MIC cards, Included in base, Supports 2 MIC cards   |
| SRX5K-MPC-R        | SRX5K-MPC-R          | SRX5K IOC2 for 100GE, 40GE, 10GE, 1GE MIC cards, Supports 2 MIC cards, Configured option  |
| SRX5K-RE-1800X4    | SRX5K-RE-1800X4      | SRX5K Route Engine, 1.8Ghz quad-core Xeon, 16GB DRAM, 128GB SSD, Supported by Junos 12.1X47-D15                                     |
| SRX5K-RE-1800X4-BB | SRX5K-RE-1800X4-BB   | SRX5K Route Engine, 1.8Ghz quad-core Xeon, 16GB DRAM, 128GB SSD, Included in base   |
| SRX5K-RE-1800X4-R  | SRX5K-RE-1800X4-R    | SRX5K Route Engine, 1.8Ghz quad-core Xeon, 16GB DRAM, 128GB SSD, Redundant option   |
| SRX5K-RE3-128G     | SRX5K-RE3-128G       | SRX5K Routing Engine - 6 Core 2.0GHz with 128G Memory, Secure Boot  |
| SRX5K-RE3-128G-BB  | SRX5K-RE3-128G-BB    | SRX5K Routing Engine - 6 Core 2.0GHz with 128G Memory, Included in base   |
| SRX5K-RE3-128G-R   | SRX5K-RE3-128G-R     | SRX5K Routing Engine - 6 Core 2.0GHz with 128G Memory, Secure Boot, Redundant   |
| SRX5K-SCB3         | SRX5K-SCB3           | SRX5K SCB3, Switch Control Board  |
| SRX5K-SCB3-BB      | SRX5K-SCB3-BB        | SRX5K SCB3, Switch Control Board, Included in base  |
| SRX5K-SCB3-R       | SRX5K-SCB3-R         | SRX5K SCB3, Switch Control Board, Redundant option  |
| SRX5K-SCB4         | SRX5K-SCB4           | SRX5K SCB4, Switch Control Board  |
| SRX5K-SCB4-BB      | SRX5K-SCB4-BB        | SRX5K SCB4, Switch Control Board, Included in base  |
| SRX5K-SCB4-R       | SRX5K-SCB4-R         | SRX5K SCB4, Switch Control Board, Redundant option  |
| SRX5K-SCBE         | SRX5K-SCBE           | SRX5K Enhanced Switch Control Board, Supported by Junos 12.1X47-D15   |
| SRX5K-SPC-4-15-320 | SRX5K-SPC-4-15-320   | High performance services processing card for SRX5K, Requires high capacity power supplies, fan trays and filters for operation     |
| SRX5K-SPC-4-15-BB  | SRX5K-SPC-4-15-BB    | SRX5K SPC2, Service Processing Card, Included in base   |
| SRX5K-SPC-4-15-R   | SRX5K-SPC-4-15-R     | SRX5K SPC2, Service Processing Card, Configured option  |
| SRX600-PWR645ACPOE | SRX600-PWR-645AC-POE | 645W AC-source power supply for SRX 650. Provides 397W System Power @ 12V and 248W POE Power @ 50VDC. - Works with 90-250VAC input. |
| SRX600-PWR645DCPOE | SRX600-PWR-645DC-POE | 645W DC Power Supply for SRX650   |

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| SRX-CFP-100G-LR4   | SRX-CFP-100G-LR4   | CFP, 100GE LR4, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector   |
| SRX-CFP-100G-SR10  | SRX-CFP-100G-SR10  | CFP, 100GE SR10, MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), MPO-12 connector               |
| SRX-FAN-1RU-AFO    | SRX-FAN-1RU-AFO    | SRX front-to-back Fan tray spare for 1 RU  |
| SRX-GP-16GE-POE    | SRX-GP-16GE-POE    | POE Ethernet Switch 16-port 10/100/1000Base-T XGPIM. Supports up to 16 ports POE. Double-High uses 2 GPIM Slots. 20Gbps or 1Gbps Slo |
| SRX-GP-1DS3-E3     | SRX-GP-1DS3-E3     | 1-Port Clear Channel DS3/E3 GPIM for SRX Branch Services Products  |
| SRX-GP-8SFP        | SRX-GP-8SFP        | 8-Port GE SFP G/XPIM for SRX Platforms   |
| SRX-GP-DUAL-T1-E1  | SRX-GP-DUAL-T1-E1  | Dual T1/E1 - 2-port - GPIM. PIM for SRX 650. Single PIM Slot.  |
| SRX-GP-QUAD-T1-E1  | SRX-GP-QUAD-T1-E1  | Quad T1/E1 - 4-port - GPIM. PIM for SRX 650. Single PIM Slot.  |
| SRX-MIC-10XG-BB    | SRX-MIC-10XG-BB    | MIC for IOC2, 10x10GE SFP+ ports, Included in base   |
| SRX-MIC-10XG-R     | SRX-MIC-10XG-R     | MIC for IOC2, 10x10GE SFP+ ports, Configured option  |
| SRX-MIC-10XG-SFPP  | SRX-MIC-10XG-SFPP  | MIC with 10x10GE SFP+ Interfaces, Requires SRX5K-MPC, Requires Junos release 12.1X46-D10 or greater, Optics sold separately          |
| SRX-MIC-1X100G-CFP | SRX-MIC-1X100G-CFP | MIC with 1x100GE CFP Interface, Requires SRX5K-MPC, Requires Junos release 12.1X46-D10 or greater, Optics sold separately            |
| SRX-MIC-1X100G-R   | SRX-MIC-1X100G-R   | MIC for IOC2, 1x100GE CFP ports, Configured option   |
| SRX-MIC-20GE-SFP   | SRX-MIC-20GE-SFP   | MIC with 20x1GE SFP Interfaces, Requires SRX5K-MPC, Requires Junos release 12.1X47-D10 or greater, Optics sold separately            |
| SRX-MIC-20GE-SFP-R | SRX-MIC-20GE-SFP-R | MIC for IOC2, 20x1GE SFP ports, Configured option  |
| SRX-MIC-2X40G-QSFP | SRX-MIC-2X40G-QSFP | MIC with 2x40GE QSFP+ Interfaces, Requires SRX5K-MPC, Requires Junos release 12.1X46-D10 or greater, Optics sold separately          |
| SRX-MIC-2X40G-R    | SRX-MIC-2X40G-R    | MIC for IOC2, 2x40GE QSFP+ ports, Configured option  |
| SRX-MP-1SERIAL-R   | SRX-MP-1SERIAL-R   | RoHS compliant 1 port Serial, MPIM form factor supported on SRX300 and SRX550  |
| SRX-MP-1T1E1-R     | SRX-MP-1T1E1-R     | RoHS compliant 1 port T1E1, MPIM form factor supported on SRX300 and SRX550  |
| SRX-MP-1VDSL2-R    | SRX-MP-1VDSL2-R    | RoHS compliant 1 port VDSL2, MPIM form factor supported on SRX300 and SRX550   |
| SRX-MP-LTE-AA      | SRX-MP-LTE-AA      | 4G / LTE MPIM support 1, 3, 5, 7-8, 18-19, 21, 28, 38-41 LTE bands (for Asia and Australia)  |
| SRX-MP-LTE-AE      | SRX-MP-LTE-AE      | 4G / LTE MPIM support 1-5, 7-8, 12-13, 20, 25-26, 29-30, 41 LTE bands (for Americas and EMEA)  |
| SRX-MP-WLAN-IL     | SRX-MP-WLAN-IL     | Wireless Access Point (WiFi) MPIM for SRX320, SRX34X, and SRX550M. Supported for the Israel regulatory bands only.                   |
| SRX-MP-WLAN-US     | SRX-MP-WLAN-US     | Wireless Access Point (WiFi) MPIM for SRX320, SRX34X, and SRX550M. Supported for the US regulatory bands only.                       |
| SRX-MP-WLAN-WW     | SRX-MP-WLAN-WW     | Wireless Access Point (WiFi) MPIM for SRX320, SRX34X, and SRX550M. Supported for the World Wide regulatory bands (excluding US and I |

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| SRX-QSFP-40G-LR4   | SRX-QSFP-40G-LR4    | QSFP+, 40GBASE-LR4 for Security Platforms, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector              |
| SRX-QSFP-40G-SR4   | SRX-QSFP-40G-SR4    | QSFP+, 40GBASE-SR4 for Security Platforms, MMF OM3 100 meters and OM4 150 meters, Standard Temperature (0 through 70 DEGREE C), MPO- |
| SRX-SFP-10GE-DAC1M | SRX-SFP-10GE-DAC-1M | SFP+, 10GE Direct Attach Copper Cable for Security Platforms, 1 meter, Standard Temperature (0 through 70 DEGREE C), 30 AWG          |
| SRX-SFP-10GE-DAC3M | SRX-SFP-10GE-DAC-3M | SFP+, 10GE Direct Attach Copper Cable for Security Platforms, 3 meters, Standard Temperature (0 through 70 DEGREE C), 30 AWG         |
| SRX-SFP-10GE-ER    | SRX-SFP-10GE-ER     | SFP+ 10GBase-ER 10 Gigabit Ethernet Optics Module, 1550nm for 40Km Transmission  |
| SRX-SFP-10GE-LR    | SRX-SFP-10GE-LR     | Small Form Factor Pluggable 10 Gigabit Ethernet (SFP+) LR Optics   |
| SRX-SFP-10GE-LRM   | SRX-SFP-10GE-LRM    | Small Form Factor Pluggable 10 Gigabit Ethernet (SFP+) LRM Optics  |
| SRX-SFP-10GE-SR    | SRX-SFP-10GE-SR     | Small Form Factor Pluggable 10 Gigabit Ethernet (SFP+) SR Optics   |
| SRX-SFP-1GE-LH     | SRX-SFP-1GE-LH      | Small Form Factor Pluggable 1000Base-LH Gigabit Ethernet Optic Module  |
| SRX-SFP-1GE-LH-ET  | SRX-SFP-1GE-LH-ET   | SFP, 1000BASE-LH for Security Platforms, SMF 70 km, Extended Temperature (-40 through 85 DEGREE C), Duplex LC connector              |
| SRX-SFP-1GE-LX     | SRX-SFP-1GE-LX      | Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module  |
| SRX-SFP-1GE-LX-ET  | SRX-SFP-1GE-LX-ET   | Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module - Extended Temp  |
| SRX-SFP-1GE-SX     | SRX-SFP-1GE-SX      | Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module  |
| SRX-SFP-1GE-SX-ET  | SRX-SFP-1GE-SX-ET   | Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module - Extended Temp  |
| SRX-SFP-1GE-T      | SRX-SFP-1GE-T       | Small Form Factor Pluggable 1000Base-T Gigabit Ethernet Module (uses Cat 5 cable)  |
| SRX-SFP-1GE-T-ET   | SRX-SFP-1GE-T-ET    | SFP, 1000BASE-T for Security Platforms, Cat 5e 100 meters, Extended Temperature (-40 through 85 DEGREE C), RJ-45 connector           |
| SRX-SFPP-10G-LR    | SRX-SFPP-10G-LR     | SFP+, 10GBASE-LR for Switching Platforms, SMF 10 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector               |
| SRX-SFPP-10G-SR-ET | SRX-SFPP-10G-SR-ET  | SFP+ 10GE pluggable transceiver, short reach, 850nm for 200m transmission, Extended Temp 0-85  |
| SSD-100G-RE1-10K3S | SSD-100G-RE1-10K3S  | RE Solid State Drive, 100G, Spare, MX10K3  |
| SSG-20-SH          | SSG-20-SH           | Security Services Gateway 20 with 2 port Mini-PIM slots, 256 MB memory   |
| SSG-5-SH           | SSG-5-SH            | Security Services Gateway 5 with Serial backup, 256 MB memory  |
| SSR100-PS          | SSR100-PS           | AC-DC power adapter for SSR100 series HW. Excludes country-specific power cord   |
| SSR120             | SSR120              | SSR120 HW only (4-core Atom, 8GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) without LTE (Check for homologation certs). SSN SW  |
| SSR1200-AC-PS      | SSR1200-AC-PS       | SSR1200 AC Power supply unit   |
| SSR1200-CHAS       | SSR1200-CHAS        | SSR1200 Chassis. No AC Power supply units & no Rackmount kit   |



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| SSR120-AA          | SSR120-AA           | SSR120 HW only (4-core Atom, 8GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) with LTE for APAC (Check for homologation & carrier) |
| SSR120-AE          | SSR120-AE           | SSR120 HW only (4-core Atom, 8GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) with LTE for AMER & EMEA (Check for homologation &   |
| SSR120-AE-TAA      | SSR120-AE-TAA       | [TAA] SSR120 HW only (4-core Atom, 8GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) with LTE for AMER & EMEA. (Check for homologa  |
| SSR120-TAA         | SSR120-TAA          | [TAA] SSR120 HW only (4-core Atom, 8GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) without LTE (Check for homologation). SSN SW   |
| SSR130             | SSR130              | SSR130 HW only (8-core Atom, 16GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) without LTE (Check for homologation certs). SSN SW  |
| SSR1300-CHAS       | SSR1300-CHAS        | SSR1300 Chassis. No AC Power supply units, no Fan tray units, & no Rackmount kit  |
| SSR1300-DC-CHAS    | SSR1300-DC-CHAS     | SSR1300 Chassis (DC power input). No Power supply units, no Fan tray units, & no Rackmount kit  |
| SSR130-AA          | SSR130-AA           | SSR130 HW only (8-core Atom, 16GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) with LTE for APAC (Check for homologation & carrie  |
| SSR130-AE          | SSR130-AE           | SSR130 HW only (8-core Atom, 16GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) with LTE for AMER & EMEA (Check for homologation &  |
| SSR130-AE-TAA      | SSR130-AE-TAA       | [TAA] SSR130 HW only (8-core Atom, 16GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) with LTE for AMER & EMEA. (Check for homolog  |
| SSR130-TAA         | SSR130-TAA          | [TAA] SSR130 HW only (8-core Atom, 16GB RAM, 120GB SSD, 2x1G combo RJ45/SFP, 6x1G RJ45) without LTE (Check for homologation certs).   |
| SSR1400-CHAS       | SSR1400-CHAS        | SSR1400 Chassis. No AC Power supply units, no Fan tray units, & no Rackmount kit  |
| SSR1400-DC-CHAS    | SSR1400-DC-CHAS     | SSR1400 Chassis (DC power input). No Power supply units, no Fan tray units, & no Rackmount kit  |
| SSR1500-AC-PS      | SSR1500-AC-PS       | SSR1500 AC Power supply unit  |
| SSR1500-CHAS       | SSR1500-CHAS        | SSR1500 Chassis. No AC Power supply units, no Fan tray units, & no Rackmount kit  |
| TCFP2-100G-C       | TCFP2-100G-C        | Tunable CFP2 coherent100G module support LH distance in C Band  |
| UNIV-10GE-2SFPP-H  | UNIV-10GE-2SFPP-H   | Network Adapter with Support for Dualrate SFP+ Optics, 2/3 Height for JSA7500   |
| UNIV-250W-PS-AC    | UNIV-250W-PS-AC     | AC Power Supply (250W)  |
| UNIV-750W-PS-AC    | UNIV-750W-PS-AC     | Power Supply AC for JSA7500   |
| UNIV-750W-PS-DC    | UNIV-750W-PS-DC     | Power Supply DC for JSA7500   |
| UNIV-FAN-NEBS      | UNIV-FAN-NEBS       | Replacement Fan for JSA7500-NEBS-BSE  |
| UNIV-MR2U-B-FAN-G  | UNIV-MR2U-B-FAN-G   | Replacement fan for MR2U, Graphite color  |
| XFP-10GE-LR        | XFP-10GE-LR         | 10GE XFP - 10KM SINGLEMODE  |
| XFP-10G-E-OC192IR2 | XFP-10G-E-OC192-IR2 | XFP, 10GBASE-E and OC192/STM64 IR-2 Dual-Rate, SMF 40 km, Extended Temperature (-5 through 70 DEGREE C), Duplex LC connector          |
| XFP-10G-L-OC192SR1 | XFP-10G-L-OC192-SR1 | XFP, 10GBASE-LR and OC192/STM64 SR-1 Dual-Rate, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector          |

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| XFP-10G-S | XFP-10G-S | XFP, 10GBASE-S, MMF 300 meters, Extended Temperature (-5 through 70 DEGREE C), Duplex LC connector |
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