## Highlights

### Family of 100Gb Switches with Advanced Enterprise Capabilities

- Full featured ExtremeXOS® operating system with advanced features supporting switching, routing, SDN, and VXLAN
- Spine and high density leaf applications
- Non-blocking 6.4Tbps switching capacity per system
- ExtremeFabric network fabric

### Ease of Use – Flexible Management Options

- Enterprise Extreme Management Center application support
- Advanced command line interface
- Zero Touch Provisioning (ZTP+)
- Integrated web-based management application

### Flexible System Configurations

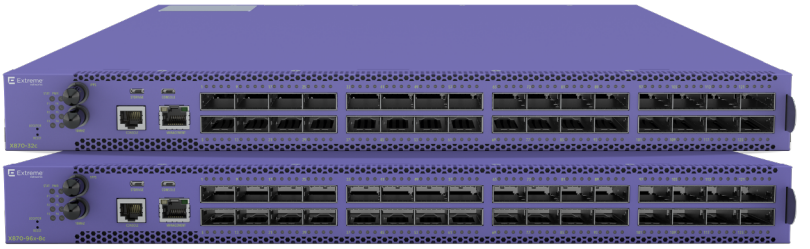
- Wide range of port speeds from 10Gb, 25Gb, 40Gb, 50Gb, and 100Gb
- Hot-swappable modular power and fans
- AC and DC power supply options
- Front to Back and Back to Front air flow options
- Redundancy options for high availability

### High-Performance 32 Port 100Gb Ethernet Switch ideal for Spine and Leaf Applications

- 32 QSFP28 100Gb ports
- Hot-swappable modular power and fans
- Up to 128 10Gb or 25Gb Ethernet ports using breakout of QSFP28 ports

### High-Density Flexible 10Gb Top of Rack Aggregation Switch

- 96 x 10Gb Ethernet ports (via breakout of ports using QSFP+ 4 x 10Gb Ethernet)
- 8 x QSFP28 100Gb ports
- 10Gb ports upgradeable to full 100Gb capability



# ExtremeSwitching™ X870

100Gb Spine Switch and High Density 10Gb Leaf Switch

## Product Overview

### High Density, Advanced 100Gb Enterprise LAN and Data Center Spine Switching

The ExtremeSwitching X870 product family are high-density, purpose-built 100Gb switches designed for high-performance enterprise and cloud data centers. With 32 QSFP28 ports, the X870 can support a range of interface speeds, including 10Gb, 25Gb, 40Gb, 50Gb and 100Gb, all in a compact 1RU form factor. This enables the ExtremeSwitching X870 to be flexibly deployed in either spine/leaf or high-density top of rack architectures. Low-latency cut-through switching and an advanced feature set make it ideal for high-performance data center applications.

### Two Models of the X870 Are Available:

**X870-32c –** Spine switch with 32 10Gb/25Gb/40Gb/50Gb/100Gb QSFP28 ports.

- Up to 32 100Gb Ethernet ports
- Up to 64 50Gb Ethernet ports
- Up to 128 25Gb Ethernet ports
- Up to 32 40Gb Ethernet ports
- Up to 128 10Gb Ethernet ports

**X870-96x-8c –** High density 10Gb leaf switch with 96 10Gb ports on 24 QSFP28 ports and 8 10Gb/25Gb/40Gb/50Gb/100Gb QSFP28 ports.

- 10Gb Ethernet connectivity is supported via QSFP+ transceivers and direct attach cables with a 4 x 10Gb Ethernet configuration
- 10Gb QSFP+ Ethernet ports can be enabled to add 25Gb/40Gb/50Gb/100Gb capability with a license for groups of 6 QSFP ports. Up to four licenses can be applied per system.
- 8 ports of 10Gb/25Gb/40Gb/50Gb/100Gb QSFP28 in base system

## Flexible Deployment Options

The X870 can handle a wide range of high bandwidth applications, including high-density 10Gb top of rack aggregation, emerging 25Gb and 50Gb Ethernet, and 100Gb spine/leaf fabric deployments. The X870 offers unique flexibility for high bandwidth 100Gb spine fabric applications and high density 10G and 25Gb edge leaf aggregation, all with a proven ExtremeXOS operating system. A wide variety of QSFP+ optical transceivers and cables can be used to support 10Gb and 40Gb Ethernet while QSFP28 optical transceivers can be used to support 25Gb, 50Gb, and 100Gb Ethernet applications.

## ExtremeXOS Intelligent L2/L3 Switching

The ExtremeSwitching X870 family supports sophisticated, intelligent Layer 2 switching, as well as Layer 3 IPv4/IPv6 routing including policy-based switching and routing. The X870 simplifies network operation with the ExtremeXOS modular operating system, which is used among all ExtremeSwitching networking products. The high availability ExtremeXOS operating system provides simplicity and ease of operation through the use of one OS everywhere in the network.

## High-Performance 400Gb Stacking

The X870 supports SummitStack-V400 400Gbps high speed stacking using 2 100Gb ports. Up to 8 X590, X690 or X870 systems can be stacked via SummitStack-V400 cables using any of the supported 100Gb QSFP28 direct attach cables for the stacking links.

## Comprehensive Network Management

Extreme Networks has developed tools that simplify and help in efficiently managing your network. The ExtremeControl application provides centralized visibility and granular control of enterprise network resources end to end.

## Product Specifications

| Model | X870-32c | X870-96x-8c |
|---|---|---|
| Ports | 32 x QSFP28 10Gb/25Gb/40Gb/50Gb/100Gb ports<br>• up to 32 x 100Gb Ethernet channels<br>• up to 64 x 50Gb Ethernet channels<br>• up to 128 x 25Gb Ethernet channels<br>• up to 32 x 40Gb Ethernet channels<br>• up to 128 x 10Gb Ethernet channels<br>1 x Serial console port RJ-45<br>1 x 10/100/1000BASE-T out-of-band management port<br>Micro-USB Type B console port<br>Micro-USB Type A storage port | 96 10Gb Ethernet ports configured via 4 x 10Gb Ethernet<br>• 24 x QSFP ports configured for 4 x 10Gb Ethernet<br>(using QSFP+ 4x10Gb Ethernet breakout)<br>• Optional port speed licenses enable ports to support<br>unrestricted 10/25/40/50100Gb operation<br>8 x QSFP28 10Gb/25Gb/40Gb/50Gb/100Gb ports<br>• up to 8 x 100Gb Ethernet channels<br>• up to 16 x 50Gb Ethernet channels<br>• up to 32 x 25Gb Ethernet channels<br>• up to 8 x 40Gb Ethernet channels<br>• up to 32 x 10Gb Ethernet channels<br>1 x Serial console port RJ-45<br>1 x 10/100/1000BASE-T out-of-band management port<br>Micro-USB Type B console port<br>Micro-USB Type A storage port |
| Power Supplies | Modular 770W AC power supply (up to two PSUs)<br>Modular 1100W DC power supply (up to two PSUs)<br>Front-Back and Back-Front airflow options | Modular 770W AC power supply (up to two PSUs)<br>Modular 1100W DC power supply (up to two PSUs)<br>Front-Back and Back-Front airflow options |
| Fan Modules | 6 fan modules<br>Front-Back and Back-Front airflow options | 6 fan modules<br>Front-Back and Back-Front airflow options |
| Dimensions | 17.3in W / 20.5in D / 1.7in H (44.0cm / 52.0cm / 4.3cm) | 17.3in W / 20.5in D / 1.7in H (44.0cm / 52.0cm / 4.3cm) |
| Weight | 18.9 lbs / 8.6 Kg (base system) | 18.9 lbs / 8.6 Kg (base system) |
| Performance | 6.4Tbps Switching Capacity / 3.17Bpps Forwarding Rate | 6.4Tbps Switching Capacity / 3.17Bpps Forwarding Rate |
| CPU/Memory | 2.4GHz Quad core CPU<br>8GB DDR3 ECC memory<br>32GB SSD memory | 2.4GHz Quad core CPU<br>8GB DDR3 ECC memory<br>32GB SSD memory |
| Packet Buffers | 16MB | 16MB |
| Operating Conditions | 0° - 45°C operation<br>10% to 95% relative humidity, non-condensing<br>0 - 3000 meters altitude<br>Shock (half sine): 98 m/s2 (10 G), 11 ms, 9 shocks<br>Random vibration: 3 to 500 Hz at 1.5 G rms | |

## Scaling and Performance

- MAC Addresses: 136K
- IPv4 LPM Entries: 192K max (ALPM)
- IPv4 Hosts:
- with min LPM IPv4 entries: 72K max
- with max LPM IPv4 entries: 6K
- IPv6 LPM (/64) Entries: 64K max (ALPM)
- IPv6 Hosts: 24K max
- IP Multicast Groups – 4K
- IP Multicast (s,v,g) entries – 68K max
- Flexible Universal Forwarding Tables (UFT)
- 4092 user-created VLAN/VMANs
- 9216 Byte Max Packet Size (Jumbo Frame)
- 8 queues per port
- up to 12k ingress rules per system (3K rules per group of 8 QSFP ports)
- 1K egress rules
- sFlow
- 400Gb stacking (full duplex) with up to 8 X870 systems
- Data Center Bridging
- DCBx Data Center Bridging Exchange Protocol
- Priority Flow Control (PFC)
- Enhanced Transmission Selection (ETS)
- VxLAN Tunneling End Point (VTEP)
- Configurable Store & Forward and Cut Through forwarding modes
- IEEE 802.3 Media Access Standards
- EEE 802.3ba / 802.3bm 40GBASE-X and 100GBASE-X
- IEEE 802.3ae 10GBASE-X
- IEEE 802.3bj 100Gb Ethernet with Clause 91 FEC
- 25Gb and 50Gb Ethernet implemented per 25G/50G Ethernet Consortium

## Power and Heat Dissipation

| Switch Model | Minimum Heat Dissipation (BTU/hr) (Idle, no ports linked) | Minimum Power Consumption (Watts) (Idle, no ports linked) | Maximum Heat Dissipation (BTU/hr) (fans high, all ports 100% traffic) | Maximum Power Consumption (Watts) (fans high, all ports 100% traffic) |
|---|---|---|---|---|
| X870-32c AC | 601 BTU/hr | 176 W | 1614 BTU/hr | 473 W |
| X870-32c DC | 629 BTU/hr | 184 W | 1598 BTU/hr | 469 W |
| X870-96x-8c AC | 601 BTU/hr | 176 W | 1614 BTU/hr | 473 W |
| X870-96x-8c DC | 629 BTU/hr | 184 W | 1598 BTU/hr | 469 W |

- 2 PSU
- 3.5W Transceivers for max power measurements

## Power Supply Specifications

| | 770W AC PSU 10960 / 10961 | 1100W DC PSU 10962 / 10963 |
|---|---|---|
| Dimensions | 2.3in W x 1.6in H x 14.1in D (5.9cm x 4.1cm x 35.9cm) | 2.3in W x 1.6in H x 14.1in D (5.9cm x 4.1cm x 35.9cm) |
| Weight | 2.2lb (1Kg) | 2.2lb (1Kg) |
| Voltage Input Range | 100 - 240 VAC +/- 10% | -48 VDC -15% +20% |
| Line Frequency Range | 50 - 60 Hz +/- 5% | n/a |
| PSU Input Socket | IEC 320 C14 | Terminal block |
| Power Cord Input Plug | IEC 320 C13 | n/a |
| Operating Conditions | 0° - 45°C operation | |

## Acoustic Specifications

| Switch Model | Bystander Sound Pressure | Declared Sound Power |
|---|---|---|
| X870-32c (Front-Back Airflow) | 54.8 dB(A) up to 25ºC<br>57.5 dB(A) up to 30ºC<br>76.5 dB(A) @ 45ºC (max) | 7.0 bels up to 25ºC<br>7.2 bels up to 30ºC<br>9.2 bels @ 45ºC (max) |
| X870-32c (Back-Front Airflow) | 58.9 dB(A) up to 25ºC<br>62.8 dB(A) up to 30ºC<br>76.4 dB(A) @ 45ºC (max) | 7.4 bels up to 25ºC<br>7.8 bels up to 30ºC<br>9.1 bels @ 45ºC (max) |
| X870-96x-8c (Front-Back Airflow) | 54.8 dB(A) up to 25ºC<br>57.5 dB(A) up to 30ºC<br>76.5 dB(A) @ 45ºC (max) | 7.0 bels up to 25ºC<br>7.2 bels up to 30ºC<br>9.2 bels @ 45ºC (max) |
| X870-96x-8c (Back-Front Airflow) | 58.9 dB(A) up to 25ºC<br>62.8 dB(A) up to 30ºC<br>76.4 dB(A) @ 45ºC (max) | 7.4 bels up to 25ºC<br>7.8 bels up to 30ºC<br>9.1 bels @ 45ºC (max) |

### Environmental Specifications

- EN/ETSI 300 019-2-1 v2.1.2 - Class 1.2 Storage
- EN/ETSI 300 019-2-2 v2.1.2 - Class 2.3 Transportation
- EN/ETSI 300 019-2-3 v2.1.2 - Class 3.1e Operational
- EN/ETSI 300 753 (1997-10) - Acoustic Noise
- ASTM D3580 Random Vibration Unpackaged 1.5 G

### Environmental Compliance

- EU RoHS 2011/65/EU
- EU WEEE 2012/19/EU
- China RoHS SJ/T 11363-2006
- Taiwan RoHS CNS 15663(2013.7)

### Packaging and Storage Specifications

- Temp: -40° C to 70° C (-40° F to 158° F)
- Humidity: 10% to 95% relative humidity, non-condensing
- Packaged Shock (half sine): 180 m/s2 (18 G), 6 ms, 600 shocks
- Packaged Vibration: 5 to 62 Hz at velocity 5 mm/s, 62 to 500 Hz at 0.2 G
- Packaged Random Vibration: 5 to 20 Hz at 1.0 ASD w/–3 dB/oct. from 20 to 200 Hz
- Packaged Drop Height: 14 drops minimum on sides and corners at 42 inches (<15 kg box)

## Regulatory and Safety

### North American ITE

- UL 60950-1 2nd edition A2:2014, Listed Device (U.S.)
- CSA 22.2 No. 60950-1 2nd edition 2014(Canada)
- Complies with FCC 21CFR 1040.10 (U.S. Laser Safety)
- CDRH Letter of Approval (US FDA Approval)

### European ITE

- EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 2nd Ed.
- EN 60825-1:2007 / IEC 60825-1:2007 Class 1 (Lasers Safety)
- 2014 / 35/ EU Low Voltage Directive

### International ITE

- CB Report and Certificate per IEC 60950-1 : 2005+A1:2009+A2:2013 + National Differences
- AS/NZS 60950-1 (Australia /New Zealand)

## EMI/EMC Standards

### North American EMC for ITE

- FCC CFR 47 part 15 Class A (USA)
- ICES-003 Class A (Canada)

### European EMC Standards

- EN 55032:2015 Class A
- EN 55024:2010
- EN 61000-3-2,2014 (Harmonics)
- EN 61000-3-3 2013 (Flicker)
- EN 300 386 v1.6.1 (EMC Telecommunications)
- 2014/30/EU EMC Directive

### International EMC Certifications

- CISPR 32:2015, Class A (International Emissions)
- AS/NZS CISPR32:2015
- CISPR 24:2010 Class A (International Immunity)
- IEC 61000-4-2:2008/EN 61000-4-2:2009 Electrostatic Discharge, 8kV Contact, 15 kV Air, Criteria A
- IEC 61000-4-3:2010/EN 61000-4-3:2006 +A1:2008 +A2:2010 Radiated Immunity 10V/m, Criteria A
- IEC 61000-4-4:2012. / EN 61000-4-4:2012 Transient Burst, 1 kV, Criteria A
- IEC 61000-4-5:2014 /EN 61000-4-5:2014 Surge, 2 kV L-L, 2 kV L-G, Level 3, Criteria A
- IEC 61000-4-6:2013/EN 61000-4-6:2014 Conducted Immunity, 0.15-80 MHz, 10V/m unmod. RMS, Criteria A
- IEC/EN 61000-4-11:2004 Power Dips & Interruptions, >30%, 25 periods, Criteria C

### Country Specific

- VCCI Class A (Japan Emissions)
- ACMA RCM (Australia Emissions)
- CCC Mark
- KCC Mark, EMC Approval (Korea)

### Telecom Standards

- CE 2.0 Compliant

## Warranty

One year hardware warranty – For warranty details, visit http://www.extremenetworks.com/go/warranty.

# Ordering Information

| Part Number | Product Name | Product Description |
|---|---|---|
| | | **ExtremeSwitching X870 Systems** |
| 17800 | X870-32c Base | X870-32c Base unit, 32 10Gb/25Gb/40Gb/50Gb/100Gb QSFP28 ports, unpopulated, ExtremeXOS Advanced Edge License, 2 unpopulated power supply slots, 6 unpopulated fan module slots |
| 17810 | X870-96x-8c Base | X870-96x-8c Base unit, 96 10Gb ports on 24 QSFP28 ports, unpopulated, 8 10Gb/25Gb/40Gb/50Gb/100Gb QSFP28 ports, unpopulated, ExtremeXOS Advanced Edge License, 2 unpopulated power supply slots, 6 unpopulated fan module slots |
| 17115 | Fan module FB | Fan module, Front to Back airflow |
| 17116 | Fan module BF | Fan module, Back to Front airflow |
| 10960 | 770W AC PSU F-B | 770W AC power supply, Front-to-Back airflow |
| 10961 | 770W AC PSU B-F | 770W AC power supply, Back-to-Front airflow |
| 10962 | 1100W DC PSU F-B | 1100W DC power supply, Front-to-Back airflow |
| 10963 | 1100W DC PSU B-F | 1100W DC power supply, Back-to-Front airflow |
| 16777 | Four Piece Rack Mount Kit, Spare | Spare Four Piece Rack Mount Kit compatible with X870 |

**Notes:**

- Fan module and power supplies must be ordered separately.
- Air flow direction of the fan module and power supplies must be the same.
- AC and DC power supplies cannot be mixed in a system.
- Rack mount rails are included.

| Part Number | Product Name | Product Description |
|---|---|---|
| | | **Firmware Licenses** |
| 17825 | X870 Core License | ExtremeXOS X870 Series Core License |
| 17826 | X870 OpenFlow Feature Pack | ExtremeXOS X870 OpenFlow Feature Pack |
| 17828 | X870 MPLS Feature Pack | ExtremeXOS X870 MPLS Feature Pack |
| 17830 | X870-96x Port Speed License | ExtremeXOS X870-96x-8c Port Speed License, upgrades 6 QSFP 10Gb ports to 10Gb/25Gb/40Gb/50Gb/100Gb support |
| | | **100Gb Optical Transceivers and Direct Attach Cables** |
| 10401 | 100Gb QSFP28 SR4 MMF | 100Gb, 100GBASE-SR4, 70m OM3 / 100m OM4 MMF, QSFP28, MPO (8 fiber) |
| 10332 | MPO to 4xLC OM4 MMF patch cord, 5m | MPO to 4xLC OM4 MMF patch cord, 5m(for use with 10401 QSFP28 SR4 4x25Gb breakout) |
| 10403 | 100Gb QSFP28 LR4 10km | 100Gb, 100GBASE-LR4, 10km SMF, QSFP28, LC |
| 10404 | 100Gb QSFP28 CWDM4 | 100Gb, CWDM4, 2km SMF, QSFP28, LC |
| 10405 | 100Gb QSFP28 PSM4 | 100Gb, Parallel Single Mode PSM4, 2km SMF, QSFP28, MPO (8 fiber) |
| 10406 | 100Gb QSFP28 SWDM4 100m | 100Gb, QSFP28 SWDM 75m OM3/100m OM4 MMF LC |
| 10327 | MPO to 4xLC Breakout Patch Cord, SM, 10m | MPO to 4xLC Breakout Patch Cord, SM, 10m (for use with 10405 QSFP28 PSM4 transceiver for 4x25Gb breakout) |
| 10434 | 100Gb, AOC QSFP28 5m | 100Gb, QSFP28-QSFP28 Active optical cable, 5m |
| 10435 | 100Gb, AOC QSFP28 7m | 100Gb, QSFP28-QSFP28 Active optical cable, 7m |
| 10436 | 100Gb, AOC QSFP28 10m | 100Gb, QSFP28-QSFP28 Active optical cable, 10m |
| 10437 | 100Gb, AOC QSFP28 20m | 100Gb, QSFP28-QSFP28 Active optical cable, 20m |
| 10441 | 100Gb AOC QSFP28 x 4 SFP28 5m | 100Gb, QSFP28- 4xSFP28 (4x25Gb) Active optical breakout cable, 5m |
| 10442 | 100Gb AOC QSFP28 x 4 SFP28 7m | 100Gb, QSFP28- 4xSFP28 (4x25Gb) Active optical breakout cable, 7m |
| 10443 | 100Gb AOC QSFP28 x 4 SFP28 10m | 100Gb, QSFP28- 4xSFP28 (4x25Gb) Active optical breakout cable, 10m |
| 10444 | 100Gb AOC QSFP28 x 4 SFP28 20m | 100Gb, QSFP28- 4xSFP28 (4x25Gb) Active optical breakout cable, 20m |
| 10410 | 100Gb, DAC QSFP28-QSFP28 0.5m | 100Gb, QSFP28-QSFP28 Direct attach passive copper cable, 0.5m |
| 10411 | 100Gb, DAC QSFP28-QSFP28 1m | 100Gb, QSFP28-QSFP28 Direct attach passive copper cable, 1m |
| 10413 | 100Gb, DAC QSFP28-QSFP28 3m | 100Gb, QSFP28-QSFP28 Direct attach passive copper cable, 3m |
| 10414 | 100Gb, DAC QSFP28-QSFP28 5m | 100Gb, QSFP28-QSFP28 Direct attach passive copper cable, 5m |
| 10421 | 100Gb, DAC QSFP28-4xSFP28 1m | 100Gb, QSFP28-4 x SFP28 (4x25Gb) Direct attach passive copper breakout, 1m |
| 10423 | 100Gb, DAC QSFP28-4xSFP28 3m | 100Gb, QSFP28-4 x SFP28 (4x25Gb) Direct attach passive copper breakout, 3m |
| 10424 | 100Gb, DAC QSFP28-4xSFP28 5m | 100Gb, QSFP28-4 x SFP28 (4x25Gb) Direct attach passive copper breakout, 5m |
| 10426 | 100Gb, DAC QSFP28-2xQSFP28 1m | 100Gb, QSFP28-2 x QSFP28 (2x50Gb) Direct attach passive copper breakout, 1m |
| 10428 | 100Gb, DAC QSFP28-2xQSFP28 3m | 100Gb, QSFP28-2 x QSFP28 (2x50Gb) Direct attach passive copper breakout, 3m |

# Ordering Information (cont.)

| Part Number | Product Name | Product Description |
|---|---|---|
| | | **40Gb Optical Transceivers and Direct Attach Cables** |
| 10319 | QSFP+ SR4 module | 40Gb QSFP+ SR4 optical module, MPO connector (8 fiber), 100m MMF OM3 |
| 9380014-5M | MPO to 4xLC OM3 MMF | MPO to 4xLC OM3 MMF patch cord, 5m (for use with 10319 QSFP+ SR4 4x10Gb breakout) |
| 10320 | QSFP+ LR4 | 40Gb QSFP+ LR4 optical module, LC, 10km SMF |
| 10326 | QSFP+ PSM Optical Module | 40Gb QSFP+ Parallel Single Mode (PSM) LR4, MPO connector (8 fiber), SMF, 10km |
| 10327 | MPO to 4xLC Breakout Patch Cord, SM, 10m | MPO to 4xLC Breakout Patch Cord, SM, 10m (for use with 10326 40Gb QSFP+ PSM transceiver for 4x10Gb breakout) |
| 10329 | 40Gb Bidi MMF QSFP+ | 40Gb Bidirectional MMF, 100m OM3, QSFP+, duplex LC |
| 10334 | 40Gb LM4 QSFP+ | 40Gb LM4, 140m OM3 MMF, 1km SMF, QSFP+, LC |
| 10335 | 40Gb ER4 QSFP+ | 40Gb ER4, 40km SMF, QSFP+, LC |
| 10311 | QSFP+ passive copper cable, 0.5M | 40 Gigabit Ethernet QSFP+ passive copper cable assembly, 0.5m length |
| 10312 | QSFP+ passive copper cable, 1.0M | 40 Gigabit Ethernet QSFP+ passive copper cable assembly, 1m length |
| 10313 | QSFP+ passive copper cable, 3.0M | 40 Gigabit Ethernet QSFP+ passive copper cable assembly, 3m length |
| 10323 | QSFP+ passive copper cable, 5.0M | 40 Gigabit Ethernet QSFP+ passive copper cable assembly, 5m length |
| 10336 | 3m QSFP+ Active Optical Cable | 40 Gigabit QSFP+ active optical cable, 3m |
| 10337 | 5m QSFP+ Active Optical Cable | 40 Gigabit QSFP+ active optical cable, 5m |
| 10315 | 10m QSFP+ Active Optical Cable | 40 Gigabit Ethernet QSFP+ active optical cable assembly, 10m length |
| 10316 | 20m QSFP+ Active Optical Cable | 40 Gigabit Ethernet QSFP+ active optical cable assembly, 20m length |
| 10318 | 100m QSFP+ Active Optical Cable | 40 Gigabit Ethernet QSFP+ active optical cable assembly, 100m length |
| 10202 | QSFP+ - 4xSFP+ fan-out cbl, 1m | QSFP+ to 4 x SFP+ fan-out copper cable, 1m |
| 10203 | QSFP+ - 4xSFP+ fan-out cbl, 2m | QSFP+ to 4 x SFP+ fan-out copper cable, 2m |
| 10321 | QSFP+ - 4xSFP+ fan-out cbl, 3m | QSFP+ to 4 x SFP+ fan-out copper cable, 3m |

**Note:** See the ExtremeXOS Hardware/Software Compatibility and Recommendation Matrices document for a full list of supported devices and ExtremeXOS recommendations.

| Power Cords |
|---|
| In support of the Extreme Networks Green Initiatives, power cords can be ordered separately but need to be specified at the time of ordering. Please refer to www.extremenetworks.com/product/powercords/ for details on power cord availability for this product. |

Extreme networks

http://www.extremenetworks.com/contact

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