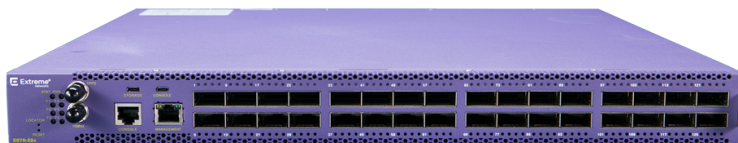


CEN-EXTRM-X870-32C KIT

Extreme Networks® Summit® X870-32c 40/100Gb Core Switch

- > A 100Gb core switch 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 6.4 Tbps switching capacity per system
- > ExtremeFabric network fabric
- > Flexible management options
- > Flexible system configurations
- > Wide range of port speeds from 10Gb, 25Gb, 40Gb, 50Gb, and 100Gb
- > Redundancy options for high availability
- > High-performance 32 port 100Gb Ethernet switch ideal for spine and leaf applications with 32 QSFP28 100Gb ports or up to 128 10Gb or 25Gb Ethernet ports using breakout
- > High-density flexible 10Gb top of rack aggregation switch with 96 10Gb Ethernet ports via breakout plus 8 QSFP28 100Gb ports
- > 10Gb ports upgradeable to full 100Gb capability
- > Front-to-back airflow via included fan modules
- > Hot-swappable, dual-redundant power supplies
- > Built-in DHCP server, DNS server, email alert, and SNMP client
- > Stackable or 1 RU 19" rack-mountable
- > Includes two 125 Volt NEMA 5-15P type power cords



speeds, including 10Gb, 25Gb, 40Gb, 50Gb and 100Gb, all in a compact 1RU form factor. This enables the Summit X870-32c 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.

Flexible Deployment Options

The Summit X870-32c 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 Summit X870-32c 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 Summit X870-32c supports sophisticated, intelligent Layer 2 switching, as well as Layer 3 IPv4/IPv6 routing including policy-based switching and routing. The Summit X870-32c simplifies network operation with the ExtremeXOS modular operating system, which is used among all Summit networking products. The high availability ExtremeXOS operating system provides simplicity and ease of operation through the use of one OS everywhere in the network.

ExtremeFabric – Ease of Deployment

The Summit X870-32c is enabled for ExtremeFabric, which is Extreme Networks' Layer 3-based Ethernet solution that simplifies both campus and data center networks. Once formed, the ExtremeFabric provides any-to-any connectivity, high-availability, and transparent access to edge devices connecting to the ExtremeFabric. The result is a resilient, multi-path network that is easy to manage and provides a single unified domain for end user/device access and policy control.

ExtremeFabric improves the performance and resiliency of the switched network, while making it easier to connect and control end-user devices and traffic. For example, setting up an ExtremeFabric is as easy as physically connecting your switch to another ExtremeFabric-capable switch and powering it up. The switch automatically discovers other connected ExtremeFabric nodes and creates the fabric, all without manual

Extreme Networks® and Crestron®

At the core of every adaptable network is a flexible, secure, and efficient switching platform. Extreme Networks provides switching platforms legendary for their high-performance and comprehensive coverage from edge to core. Crestron and Extreme Networks have teamed up to provide a rock-solid solution for Crestron DM® NVX network AV and general network switching needs. Solutions are right-sized for your application and budget. You get Extreme Networks' renowned security and management with Crestron support and control.

Enterprise and Campus-Wide Deployment

When you need to go beyond 80 DM NVX encoders, or you want to manage at the room level, the Extreme Networks Summit® Series is the right solution. When combined with multiple Summit® edge switches, the Summit X870-32c core switch supports network configurations with up to 1,280 endpoints. The Summit X870-32c provides 32 40GBase-X/100GBase-X QSFP28 ports.

Note: The Crestron CEN-EXTRM-X870-32C KIT provides a complete packaged solution that includes the Summit X870-32c base switch, six fan modules, dual redundant power supplies, AC power cords, and a Summit X870 series core license.

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

The Summit X870-32c is a high-density, purpose-built 100Gb switch designed for high-performance enterprise and cloud data centers. With 32 QSFP28 ports, the Summit X870-32c can support a range of interface

intervention or user configuration. The resulting ExtremeFabric forms a unified domain for edge device connectivity, permitting user-based policy to be applied to devices, users, and/or traffic at the edge of the fabric.

ExtremeFabric is suitable for data center, campus, or hybrid environments and runs independent of the underlying network topology. It can be deployed in spine-leaf, traditional 3-tier, or even highly-meshed networks. This makes it well suited for both large and mid-size enterprise networks, whether as part of a data center or campus deployment.

High-Performance 400Gb Stacking

The Summit X870-32c supports SummitStack-V400 400Gbps high speed stacking using 2 100Gb ports. Up to 8 X870-32c systems can be stacked using SummitStack-V400. Any of the supported 100Gb QSFP28 direct attach cables and optical transceivers can be used 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.

Additional Resources

For additional resources related to the Extreme Networks switches, refer to the following:

- For an overview of all the Extreme Networks switches available from Crestron, visit <https://www.crestron.com/extremenetworks>.
- For complete specifications and documentation, visit <https://www.extremenetworks.com/product/x870-series/>.
- For access to the Extreme GTAC (Global Technical Assistance Center) knowledgebase and the Hub Community Extreme Support home page, visit <https://extremeportal.force.com/ExtrSupportHome>.
- For all inquiries and support related to the Extreme Networks switches and accessories, contact [Crestron customer support](#). Please do not contact Extreme Networks customer service or create a case in the Extreme Support Portal.

SPECIFICATIONS

For complete specifications and documentation, refer to the manufacturer's website at <https://www.extremenetworks.com/product/x870-series/>.

Performance & Ports

Performance: Line rate 6.4 Tbps switching capacity (full duplex)

Ports: 32 100GBase-X (QSFP28) unpopulated ports supporting:

- up to 32 x 100Gb Ethernet channels;
 - up to 64 x 50Gb Ethernet channels;
 - up to 128 x 25Gb Ethernet channels;
 - up to 32 x 40Gb Ethernet channels;
 - up to 128 x 10Gb Ethernet channels;
- 1 x Serial console port (RJ-45);
1 x 10/100/1000Base-T out-of-band management port;
1 x Micro-USB Type B console port;
1 x Micro-USB Type A storage port

Power

Main Power: 2 x 100-240 Volts AC, 50/60 Hz, dual redundant power supply modules

Power Cords: Includes (2) 10A, 125V, NEMA 5-15P to IEC 60320 C13 power cords

Power Consumption: 176 Watts minimum, 473 Watts maximum

Environmental

Temperature: 32° to 113° F (0° to 45° C)

Humidity: 10% to 95% RH (non-condensing)

Altitude: 0 to 9850 ft (0 to 3000 m)

Heat Dissipation: 601 BTU/hr minimum, 1614 BTU/hr maximum

Ambient Noise: 54.8 dBA @ 0-25° C bystand;

57.5 dBA @ 25-30° C bystand;

76.5 dBA @ 45° C bystand

Construction

Housing: Metal, multispeed fan cooled, vented sides

Mounting: Freestanding or 1 RU 19-inch rack-mountable (rack ears included)

Dimensions

Height: 1.70 in (43 mm)

Width: 17.33 in (440 mm)

Depth: 20.48 in (520 mm)

Weight

23.4 lb (10.6 kg)

Includes power supply and fan modules

MODELS & ACCESSORIES

Available Models

CEN-EXTRM-X870-32C KIT: Extreme Networks® Summit® X870-32c 40/100Gb Core Switch, 32 40GBase-X/100GBase-X QSFP28 Ports, Dual RPS

Included Accessories

- CEN-EXTRM-CBL-PWR-10A-NEMA5-15P:** Extreme Networks® Power Cord, 10A, 125V, NEMA 5-15P, IEC 60320 C13 (10061) (Qty. 2 included)
- CEN-EXTRM-PSU-770W-AC-F-B:** Extreme Networks® Summit® 770W AC Power Supply Module for X870 Series, Front to Back Airflow (10960) (Qty. 2 included)
- CEN-EXTRM-FAN-870-F-B:** Extreme Networks® Summit® Fan Module for X870 Series, Front to Back Airflow (17115) (Qty. 6 included)
- CEN-EXTRM-LIC-X870-CORE:** Extreme Networks® Summit® X870 Series Core License (17825) (Qty. 1 included)

Available Accessories

- CEN-EXTRM-QSFP+-40GBASE-SR4:** Extreme Networks® 40GbE QSFP+ SR4 Optical Transceiver Module (10319)
- CEN-EXTRM-QSFP+-40GBASE-LR4:** Extreme Networks® 40GbE QSFP+ LR4 Optical Transceiver Module (10320)
- CEN-EXTRM-CBL-0.5MQSFP+PASSIVE COPPER:** Extreme Networks® 40GbE QSFP+ Passive Copper Cable, 0.5m (10311)
- CEN-EXTRM-CBL-1MQSFP+PASSIVE COPPER:** Extreme Networks® 40GbE QSFP+ Passive Copper Cable, 1m (10312)
- CEN-EXTRM-CBL-3MQSFP+PASSIVE COPPER:** Extreme Networks® 40GbE QSFP+ Passive Copper Cable, 3m (10313)
- CEN-EXTRM-CBL-5MQSFP+PASSIVE COPPER:** Extreme Networks® 40GbE QSFP+ Passive Copper Cable, 5m (10323)
- CEN-EXTRM-CBL-100GV-DAC-QSFP28-QSFP28-3M:** Extreme Networks® 100GbE QSFP28 Passive Copper Cable, 3m (10413)
- CEN-EXTRM-CBL-9380014-5M:** Extreme Networks® 10GbE OM3 Multimode Breakout Cable, MPO 8 Parallel Fiber to 4 LC Duplex, 5m (9380014-5M)

Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

For complete specifications and documentation, please visit <https://www.extremenetworks.com/product/x870-series/>.

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