

# CEN-EXTRM-220 Series

## Extreme Networks® 220 Series Gigabit Switches

- > Gigabit Ethernet Layer 3 switches for commercial and residential networking
- > Preconfigured for use with Crestron® DM® NVX Network AV encoder/decoders
- > Choice of 12, 24, or 48 Gigabit Ethernet ports with IEEE 802.3at PoE+
- > Choice of 2 or 4 10GBase-X SFP+ ports
- > Fiber connectivity using Crestron SFP-1G and SFP-10G Series SFP/SFP+ transceivers
- > Line rate performance on all ports
- > Stacking of up to four switches
- > Comprehensive layer 2 edge feature set
- > Full layer 3 feature set including static and RIP routing with up to 64 routes for network segmentation
- > Access control lists for granular security control
- > Flexible management options
- > Built-in DHCP server, DNS server, email alert, and SNMP client
- > Stackable or 1 RU 19" rack-mountable
- > Includes 125 Volt NEMA 5-15P type power cord



### 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.

### Single Room or Small Business Deployment

The Extreme Networks 220 Series provides an economical yet robust Gigabit Ethernet switching solution. Switches are available in 12-, 24-, and 48-port models with PoE+ to power Crestron touch screens and other devices. The 220 Series switches are preconfigured for operation with Crestron DM NVX Series encoder/decoders, and are ideal for all types of networking applications.

*Note: Crestron CEN-EXTRM-220 series kits are complete packaged solutions that include a 220-12p-10GE2, 220-24p-10GE2, or 220-48p-10GE4 base switch with AC power cord.*

### Small Building or Single Floor Deployment

For applications larger than 48 endpoints, up to four 220 Series switches can be stacked and linked to support a network with up to 80 x 80 endpoints.

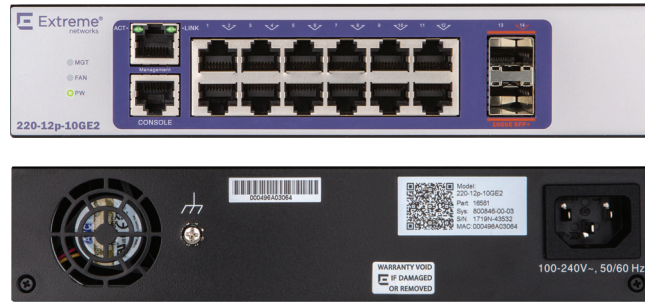
*Note: Additional configuration is required when linking multiple switches.*

### Extreme Networks 220 Series Overview

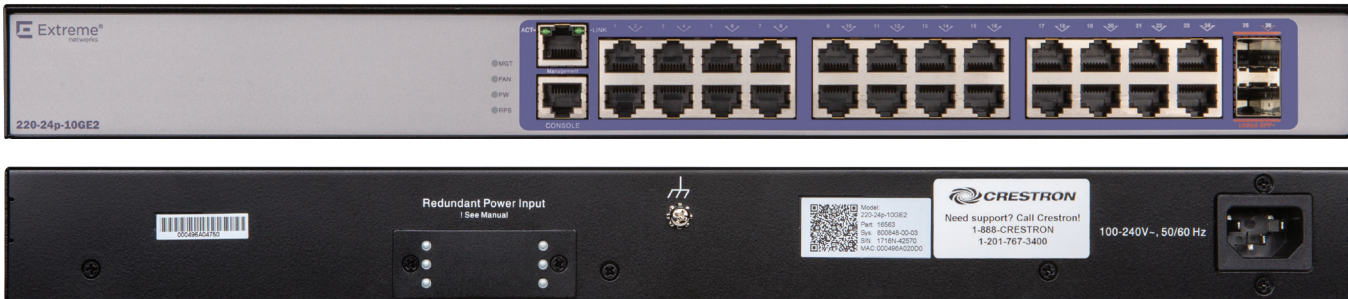
The 220 Series is an economical, fixed-configuration family of managed layer 3 Gigabit Ethernet switches designed for enterprises, small to medium-sized businesses, and residences looking for key features in a flexible, yet easy-to-manage solution. Crestron offers three models with a choice of 12, 24, or 48 Gigabit PoE+ ports. All models provide nonblocking Gigabit per port performance and include either 2 or 4 SFP+ ports for high-speed 10 Gbps fiber connectivity. In addition, the 12-port model can operate in fanless mode, making it ideal for office and residential deployments.

The 220 Series offers dynamic IPv4 RIP routing services, and stacking of up to 4 switches with single IP management. It also provides multiple management options, including cloud-based management via ExtremeCloud for wired and wireless network oversight through a single pane of glass. The switches can also be set up via a web browser, or managed by ExtremeManagement for centralized provisioning, monitoring, and troubleshooting. For advanced users, the 220 Series offers an industry-standard CLI along with scripting capabilities.

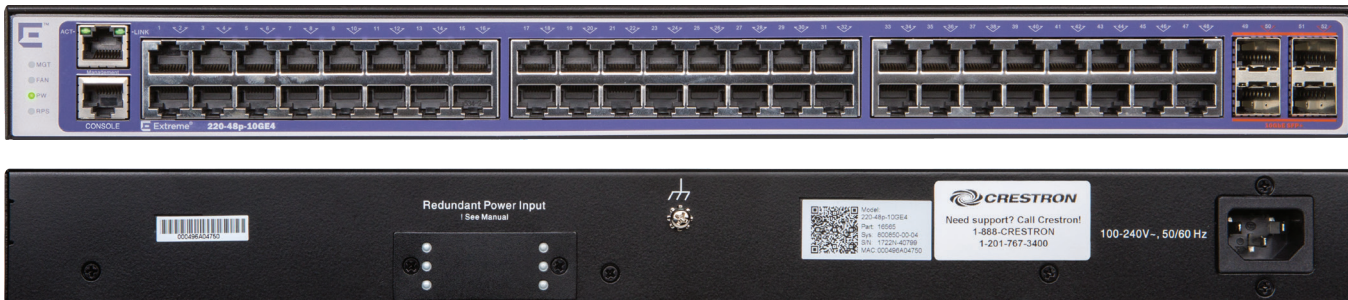
# CEN-EXTRM-220 Series Extreme Networks® 220 Series Gigabit Switches



CEN-EXTRM-220-12P KIT  
Front & Rear



CEN-EXTRM-220-24P KIT  
Front & Rear



CEN-EXTRM-220-48P KIT  
Front & Rear

## 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/200-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/200-series/>.

### Performance & Ports

- CEN-EXTRM-220-12P KIT:** 64 Gbps, 47.6 Mpps;  
12 x 10/100/1000Base-T PoE+ (RJ-45) ports;  
2 x 10GBase-X (SFP+) unpopulated ports;  
1 x Serial console port (RJ-45);  
1 x 10/100Base-T out-of-band management port
- CEN-EXTRM-220-24P KIT:** 88 Gbps, 65.5 Mpps;  
24 x 10/100/1000Base-T PoE+ (RJ-45) ports;  
2 x 10GBase-X (SFP+) unpopulated ports;  
1 x Serial console port (RJ-45);  
1 x 10/100Base-T out-of-band management port
- CEN-EXTRM-220-48P KIT:** 176 Gbps, 130.9 Mpps;  
48 x 10/100/1000Base-T PoE+ (RJ-45) ports;  
4 x 10GBase-X (SFP+) unpopulated ports;  
1 x Serial console port (RJ-45);  
1 x 10/100Base-T out-of-band management port

# CEN-EXTRM-220 Series Extreme Networks® 220 Series Gigabit Switches

## Power

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**Main Power:** 100-240 Volts AC, 50/60 Hz, internal power supply

**Power Cord:** Includes 10A, 125V, NEMA 5-15P to IEC 60320 C13 power cord

**Power Consumption:**

CEN-EXTRM-220-12P KIT: 17 Watts minimum, 155 Watts maximum;

CEN-EXTRM-220-24P KIT: 21 Watts minimum, 240 Watts maximum;

CEN-EXTRM-220-48P KIT: 35 Watts minimum, 485 Watts maximum

**Available PoE:** CEN-EXTRM-220-12P KIT: 123 Watts;

CEN-EXTRM-220-24P KIT: 185 Watts;

CEN-EXTRM-220-48P KIT: 370 Watts

## Environmental

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**Temperature:** 32° to 122° F (0° to 50° C)

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

**Altitude:** CEN-EXTRM-220-12P KIT: 0 to 6857 ft (0 to 2000 m);

CEN-EXTRM-220-24P KIT: 0 to 9850 ft (0 to 3000 m);

CEN-EXTRM-220-48P KIT: 0 to 9850 ft (0 to 3000 m)

**Heat Dissipation:**

CEN-EXTRM-220-12P KIT: 57 BTU/hr minimum, 116 BTU/hr maximum;

CEN-EXTRM-220-24P KIT: 73 BTU/hr minimum, 198 BTU/hr maximum;

CEN-EXTRM-220-48P KIT: 119 BTU/hr minimum, 392 BTU/hr maximum

**Ambient Noise:**

CEN-EXTRM-220-12P KIT: 0 dBA minimum, 50.1 dBA maximum;

CEN-EXTRM-220-24P KIT: 41 dBA minimum, 53.9 dBA maximum;

CEN-EXTRM-220-48P KIT: 41.6 dBA minimum, 52.6 dBA maximum

## Construction

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**Housing:** Metal, multispeed fan cooled, vented sides

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

### Dimensions – CEN-EXTRM-220-12P KIT

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**Height:** 1.73 in (44 mm)

**Width:** 8.23 in (209 mm)

**Depth:** 10.10 in (255 mm)

### Dimensions – CEN-EXTRM-220-24P KIT & CEN-EXTRM-220-48P KIT

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**Height:** 1.73 in (44 mm)

**Width:** 17.38 in (441 mm)

**Depth:** 10.00 in (254 mm)

## Weight

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**CEN-EXTRM-220-12P KIT:** 4.14 lb (1.88 kg)

**CEN-EXTRM-220-24P KIT:** 8.14 lb (3.69 kg)

**CEN-EXTRM-220-48P KIT:** 9.92 lb (4.50 kg)

## MODELS & ACCESSORIES

### Available Models

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**CEN-EXTRM-220-12P KIT:** Extreme Networks® 220-12p-10GE2 Gigabit Switch, 12 1000Base-T PoE+ RJ45 Ports, 2 10GBase-X SFP+ Ports

**CEN-EXTRM-220-24P KIT:** Extreme Networks® 220-24p-10GE2 Gigabit Switch, 24 1000Base-T PoE+ RJ45 Ports, 2 10GBase-X SFP+ Ports

**CEN-EXTRM-220-48P KIT:** Extreme Networks® 220-48p-10GE4 Gigabit Switch, 48 1000Base-T PoE+ RJ45 Ports, 4 10GBase-X SFP+ Ports

### Included Accessories

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**CEN-EXTRM-CBL-PWR-10A-NEMA5-15P:** Extreme Networks® Power Cord, 10A, 125V, NEMA 5-15P, IEC 60320 C13 (10061) (Qty. 1 included)

### Available Accessories

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**SFP-1G-SX:** SFP Transceiver Module, Duplex Multimode Fiber, 850 nm

**SFP-1G-LX:** SFP Transceiver Module, Duplex Single-Mode Fiber, 1310 nm

**SFP-1G-BX-U:** SFP Transceiver Module, Simplex Single-Mode Fiber, 1310/1490 nm, Uplink

**SFP-1G-BX-D:** SFP Transceiver Module, Simplex Single-Mode Fiber, 1490/1310 nm, Downlink

**SFP-10G-SR:** SFP+ Transceiver Module, Duplex Multimode 850 nm

**SFP-10G-BX-U:** SFP+ Transceiver Module, Simplex Single-Mode 1270/1330 nm, Uplink

**SFP-10G-BX-D:** SFP+ Transceiver Module, Simplex Single-Mode 1330/1270 nm, Downlink

### 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/200-series/>.

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