

# CEN-SWPOE-48-ULTRA

## 48 Port Ultra PoE Managed Switch



- *Class-leading NETGEAR® AV network switch*
- *Rack-mount 48 port managed switch*
- *Forty 1000Base-T Gigabit Ethernet ports*
- *Supports PoE++ (802.3bt Type 4) on 40 Ethernet ports*
- *Provides up to 90 W per port, maximum 2880 W combined output*
- *Eight 10 Gigabit Base-X SFP+ ports*
- *Selectable DM NVX® AV-over-IP and DM NAX® Audio-over-IP profiles*
- *Layer 2 and Layer 3 managed switching functionality*
- *LLDP (Link Layer Discovery Protocol) support*
- *240 Gbps switching fabric (non-blocking)*
- *Simple-to-use Web browser interface*

Class-leading NETGEAR® AV network switches are designed to make integration with Crestron AV-over-IP products as simple as possible. The CEN-SWPOE-48-ULTRA is a 48 port managed Ethernet switch that provides PoE++ from 40 of its ports. The eight 10 Gigabit Base-X SFP+ ports enable use of transceiver modules to connect to a fiber network.

### DM NVX and DM NAX AV-over-IP Profiles

When configuring a DM NVX AV-over-IP or DM NAX Audio-over-IP network, select the appropriate profile to automatically configure the CEN-SWPOE-48-ULTRA with the multicast management functionality required.

### Web Browser Interface

Using a streamlined interface, quickly configure individual ports or assign AV profiles for use with DM NVX or DM NAX systems. An advanced command line interface is also available.

### Eight SFP+ Ports

All SFP+ ports offer 10 Gigabit Base-X connections with support for both multimode and single-mode fiber transceiver modules, such as the [SFP-10G-SR](#).

### Power Over Ethernet++

PoE++ is supplied on 40 ports, offering a centralized power source for multiple devices while eliminating extra wiring and bulky power supplies. Up to 90 W is provided per port with a combined maximum output of 2880 W.

## Specifications

### Ethernet

<b>Ports</b>	(40) 10/100/1000Base-T auto-sensing Gigabit Ethernet w/PoE++; (8) 10 Gigabit Base-X SFP+
<b>Network Standards</b>	IEEE 802.3af, 802.3at, 802.3bt
<b>MAC Addresses</b>	Up to 16K
<b>Switch Fabric</b>	240 Gbps non-blocking

### Lite Layer 3 Package

<b>Management</b>	Out-of-band; IT Web GUI (main); HTTPs, CLI, Telnet, SSH; SNMP, MIBs, RSPAN; Radius users, TACACS+
<b>IPv4/IPv6 ACL and QoS</b>	Ingress/egress; 1 Kbps shaping, time-based; Single rate policing
<b>IPv4/IPv6 Multicast Filtering</b>	Automated IGMP between switches; IGMPv3 MLDv2 snooping, proxy ASM and SSM; IGMPv1, v2 querier (compatible with v3); Control packet flooding
<b>IPv4/IPv6 Policing and Convergence</b>	Auto-VoIP; Policy-based routing; LLDP-MED; IEEE 1588 PTPv2
<b>IPv4/IPv6 Authentication Security</b>	Successive tiering (DOT1X, MAB, Captive portal); DHCP snooping; Dynamic ARP inspection; IP source guard
<b>IPv4/IPv6 Static Routing</b>	Port, subnet, VLAN routing; Multicast static routes; DHCPv4 server; DHCP relay; Stateful DHCPv6 Server
<b>IPv4/IPv6 Dynamic Routing</b>	IPv4: RIP; IPv4/IPv6: PIM-SM, PIM-DM, SSM
<b>Spanning Tree Green Ethernet</b>	STP, MTP, RSTP; PV(R)STP; BPDU/STRG; EEE 802.3az
<b>VLANs</b>	Static, dynamic, voice, MAC; GVRP/GMRP; Double VLAN mode; Private VLANs

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### Controls & Indicators

<b>POWER</b>	(1) green LED, indicates operating power supplied via main power input; Repeated on front and rear panels
<b>FAN</b>	(1) green LED, indicates fan is in operation; Repeated on front and rear panels
<b>PoE MAX</b>	(1) green LED, indicates the unit is supplying the maximum amount of PoE; Repeated on front and rear panels
<b>OOB</b>	(2) green LEDs for Ethernet port, indicates Ethernet link status for out-of-band (service) port
<b>1-40</b>	(2) LEDs per each (40) Ethernet port, left (green) LEDs indicate Ethernet link status for each corresponding port, right (blue) LEDs indicate PoE for each corresponding port; Repeated on front and rear panels
<b>41-48</b>	(1) green LED per SFP+ port, indicates active connection; Repeated on front and rear panels
<b>On/Off</b>	(1) Rocker switch, turns main power on or off
<b>RESET</b>	(1) Recessed push button; Used for reboot or factory reset

### Connectors

<b>OOB</b>	(1) 8-wire RJ45, female; 10/100/1000Base-T Ethernet port
<b>CONSOLE</b>	(1) 8-wire RJ45, female
<b>USB-C</b>	USB-C® port, female
<b>100-240V</b>	(3) power connectors
<b>USB</b>	USB Type A, female
<b>LED EXT</b>	USB-C® port, female
<b>1-40</b>	(40) 8-wire RJ45, female; 10/100/1000Base-T Ethernet ports and PoE Power Sourcing Equipment (PSE) outputs; Supports IEEE 802.3bt Type 4 PoE++ power sourcing from any ports up to the maximum specified power capabilities; Maximum 90 W per port, 2880 W total
<b>41-48</b>	(8) SFP+ ports, female; 10 Gigabit Base-X SFP+

### Power Requirements

<b>Main Power</b>	12A @ 100–240VAC, 50/60 Hz
<b>Power Consumption</b>	Single AC Connection, Max PoE: 912 W; Dual AC Connection, Max PoE: 1998 W; Triple AC Connection, Max PoE: 3523 W; Full Mesh Traffic, No PoE: 82.6 W; Standby: 68.5 W

### Environmental

<b>Temperature</b>	32° to 113° F (0° to 45° C)
<b>Humidity</b>	10% to 90% RH (non-condensing)
<b>Acoustic Noise</b>	60 dBA at 77° F (25° C)

### Construction

<b>Chassis</b>	Metal, black finish, fan-cooled, vented sides
<b>Mounting</b>	Freestanding or 2U 19-inch rack-mountable with reversible rack ears

### Dimensions

<b>Height</b>	3.4 in. (86.4 mm)
<b>Width</b>	17.32 in. (440 mm)
<b>Depth</b>	13.78 in (350 mm)

### Weight

22.72 lb (10.28 kg)

### Model

**CEN-SWPOE-48-ULTRA**  
48 Port Ultra PoE Managed Switch

### Available Accessories

For a list of available accessories, visit the [CEN-SWPOE-48-ULTRA](#) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](http://www.crestron.com/How-To-Buy/Find-a-Representative) or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to [www.crestron.com/warranty](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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Rev 10/15/25