

# CEN-SWPOE-52-ULTRA

## 52 Port Ultra PoE Managed Switch



- Class-leading NETGEAR® AV network switch
- Rack-mount 52 port managed switch
- Forty-four 2.5 Gigabit Ethernet ports
- Two slots for modular power supply units (sold separately)
- Supports PoE++ (802.3bt Type 4) on 48 Ethernet ports
- Provides up to 90 W per port, maximum 3314 W combined output (with modular power supplies, sold separately)
- Four 25 Gigabit Base-X SFP28 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
- 500 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-52-ULTRA is a 52 port managed Ethernet switch that provides PoE++ from 48 of its ports. The four 25 Gigabit Base-X SFP28 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-52-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.

### Four SFP28 Ports

All SFP28 ports offer 25 Gigabit Base-X connections with support for both multimode and single-mode fiber transceiver modules (sold separately).

### Power Over Ethernet++

PoE++ is supplied on 48 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 3314 W (with two modular power supply units, sold separately - maximum output without the modular power supply units is 194 W).

### Modular Power Supply Slots

The CEN-SWPOE-52-ULTRA features two modular power supply slots compatible with the [CEN-SWSFP-PWS350](#) or [CEN-SWPOE-PWS2000-ULTRA](#) for power redundancy. The CEN-SWPOE-PWS2000-ULTRA also expands the switch's total PoE budget to 3314 W without redundancy or up to 1794 W with redundancy in case of failover.

## Specifications

### Ethernet

|                          |   |
|--------------------------|---|
| <b>Ports</b>             | (44) 2.5 Gigabit auto-sensing Ethernet w/PoE++;<br>(4) 10 Gigabit auto-sensing 10G/Multi-Gigabit Ethernet w/PoE++;<br>(4) 25 Gigabit Base-X SFP28 |
| <b>Network Standards</b> | IEEE 802.3af, 802.3at, 802.3bt  |
| <b>MAC Addresses</b>     | Up to 16K   |
| <b>Switch Fabric</b>     | 500 Gbps non-blocking   |

### Lite Layer 3 Package

|   |  |
|---|--|
| <b>Management</b>                         | Out-of-band;<br>IT Web GUI (main);<br>HTTPs, CLI, Telnet, SSH;<br>SNMP, MIBs, RSPAN;<br>Radius users, TACACS+  |
| <b>IPv4/IPv6 ACL and QoS</b>              | Ingress/egress;<br>1 Kbps shaping, time-based;<br>Single rate policing   |
| <b>IPv4/IPv6 Multicast Filtering</b>      | Automated IGMP between switches;<br>IGMPv3 MLDv2 snooping, proxy ASM and SSM;<br>IGMPv1, v2 querier (compatible with v3);<br>Control packet flooding |
| <b>IPv4/IPv6 Policing and Convergence</b> | Auto-VoIP;<br>Policy-based routing;<br>LLDP-MED;<br>IEEE 1588 PTPv2  |
| <b>IPv4/IPv6 Authentication Security</b>  | Successive tiering (DOT1X, MAB, Captive portal);<br>DHCP snooping;<br>Dynamic ARP inspection;<br>IP source guard                                     |

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|                                     |   |                         |  |
|-------------------------------------|---|-------------------------|--|
| <b>IPv4/IPv6 Static Routing</b>     | Port, subnet, VLAN routing; Multicast static routes; DHCPv4 server; DHCP relay; Stateful DHCPv6 Server  | <b>100-240V PSU 1-2</b> | (1) power connector<br>(2) Modular power supply slots for <a href="#">CEN-SWSFP-PWS350</a> or <a href="#">CEN-SWPOE-PWS2000-ULTRA</a> (sold separately)  |
| <b>IPv4/IPv6 Dynamic Routing</b>    | IPv4: RIP; IPv4/IPv6: PIM-SM, PIM-DM, SSM   | <b>USB 3.0 1-44</b>     | (2) USB Type A connectors, female<br>(40) 8-wire RJ45, female; 2.5 G 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, 3314 W total |
| <b>Spanning Tree Green Ethernet</b> | STP, MTP, RSTP; PV(R)STP; BPDU/STRG; IEEE 802.3az   | <b>45-48</b>            | (4) 8-wire RJ45, female; 10 Gigabit/Multi-Gigabit 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, 3314 W total                    |
| <b>VLANs</b>                        | Static, dynamic, voice, MAC; GVRP/GMRP; Double VLAN mode; Private VLANs   | <b>49-52</b>            | (4) SFP28 ports, female; 25 Gigabit Base-X SFP28   |
| <b>Controls &amp; Indicators</b>    |   |                         |  |
| <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>STACK MASTER</b>                 | (1) green LED, indicates that the unit is operating as stack master for its switch stack  |                         |  |
| <b>STACK ID</b>                     | (1) Seven-segment green LED digit, indicates the number of the switch in its switch stack   |                         |  |
| <b>1-48</b>                         | (2) LEDs per each (48) Ethernet port, left (green) LEDs indicate Ethernet link status for each corresponding port, right (blue) LEDs indicate PoE for each corresponding port |                         |  |
| <b>49-52</b>                        | (1) green LED per SFP28 port, indicates active connection   |                         |  |
| <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  |                         |  |
| <b>Connectors</b>                   |   |                         |  |
| <b>OOB</b>                          | (1) 8-wire RJ45, female; 10/100/1000Base-T Ethernet port  |                         |  |
| <b>USB-C</b>                        | USB-C® port, female   |                         |  |
| <b>Power Requirements</b>           |   |                         |  |
| <b>Main Power</b>                   | 12A @ 100–240VAC, 50/60 Hz  |                         |  |
| <b>Power Consumption</b>            | Maximum Modular Power Supplies Connected, Max PoE: 3857.5 W; Internal Power Supply, Max PoE: 351.5 W; Full Mesh Traffic, No PoE: 133.5 W; Standby: 56.5 W                     |                         |  |
| <b>Environmental</b>                |   |                         |  |
| <b>Temperature</b>                  | 32° to 113° F (0° to 45° C)   |                         |  |
| <b>Humidity</b>                     | 10% to 90% RH (non-condensing)  |                         |  |
| <b>Acoustic Noise</b>               | Quiet Mode: 34 dBA at 77° F (25° C); Cool Mode: 52 dBA at 77° F (25° C)   |                         |  |
| <b>Construction</b>                 |   |                         |  |
| <b>Chassis</b>                      | Metal, black finish, fan-cooled, vented sides   |                         |  |
| <b>Mounting</b>                     | Freestanding or 1U 19-inch rack-mountable with reversible rack ears   |                         |  |
| <b>Dimensions</b>                   |   |                         |  |
| <b>Height</b>                       | 1.7 in. (43.2 mm)   |                         |  |
| <b>Width</b>                        | 17.32 in. (440 mm)  |                         |  |
| <b>Depth</b>                        | 15.74 in. (400 mm)  |                         |  |
| <b>Weight</b>                       |   |                         |  |
|                                     | 16.18 lb (7.34 kg)  |                         |  |

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### Model

#### **CEN-SWPOE-52-ULTRA**

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### Available Accessories

For a list of available accessories, visit the [CEN-SWPOE-52-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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