

CEN-SWPOE-52-ULTRA-TAA

52 Port Ultra PoE Managed Switch, TAA Compliant



- 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
- TAA compliant

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-TAA 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-TAA 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-TAA 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

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

Lite Layer 3 Package

Management	Out-of-band; IT Web GUI (main); HTTPs, CLI, Telnet, SSH; SNMP, MIBs, RSPAN; Radius users, TACACS+
IPv4/IPv6 ACL and QoS	Ingress/egress; 1 Kbps shaping, time-based; Single rate policing
IPv4/IPv6 Multicast Filtering	Automated IGMP between switches; IGMPv3 MLDv2 snooping, proxy ASM and SSM; IGMPv1, v2 querier (compatible with v3); Control packet flooding
IPv4/IPv6 Policing and Convergence	Auto-VoIP; Policy-based routing; LLDP-MED; IEEE 1588 PTPv2

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IPv4/IPv6 Authentication Security	Successive tiering (DOT1X, MAB, Captive portal); DHCP snooping; Dynamic ARP inspection; IP source guard
IPv4/IPv6 Static Routing	Port, subnet, VLAN routing; Multicast static routes; DHCPv4 server; DHCP relay; Stateful DHCPv6 Server
IPv4/IPv6 Dynamic Routing	IPv4: RIP; IPv4/IPv6: PIM-SM, PIM-DM, SSM
Spanning Tree Green Ethernet	STP, MTP, RSTP; PV(R)STP; BPDU/STRG; EEE 802.3az
VLANs	Static, dynamic, voice, MAC; GVRP/GMRP; Double VLAN mode; Private VLANs

Controls & Indicators

POWER	(1) green LED, indicates operating power supplied via main power input
FAN	(1) green LED, indicates fan is in operation
PoE MAX	(1) green LED, indicates the unit is supplying the maximum amount of PoE
OOB	(2) green LEDs for Ethernet port, indicates Ethernet link status for out-of-band (service) port
STACK MASTER	(1) green LED, indicates that the unit is operating as stack master for its switch stack
STACK ID	(1) Seven-segment green LED digit, indicates the number of the switch in its switch stack
1-48	(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
49-52	(1) green LED per SFP28 port, indicates active connection
On/Off	(1) Rocker switch, turns main power on or off
RESET	(1) Recessed push button; Used for reboot or factory reset

Connectors

OOB	(1) 8-wire RJ45, female; 10/100/1000Base-T Ethernet port
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USB-C	USB-C® port, female
100-240V	(1) power connector
PSU 1-2	(2) Modular power supply slots for CEN-SWSFP-PWS350 or CEN-SWPOE-PWS2000-ULTRA (sold separately)
USB 3.0	(2) USB Type A connectors, female
1-44	(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
45-48	(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
49-52	(4) SFP28 ports, female; 25 Gigabit Base-X SFP28

Power Requirements

Power Consumption	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
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Environmental

Temperature	32° to 113° F (0° to 45° C)
Humidity	10% to 90% RH (non-condensing)
Acoustic Noise	Quiet Mode: 34 dBA at 77° F (25° C); Cool Mode: 52 dBA at 77° F (25° C)

Construction

Chassis	Metal, black finish, fan-cooled, vented sides
Mounting	Freestanding or 1U 19-inch rack-mountable with reversible rack ears

Dimensions

Height	1.7 in. (43.2 mm)
Width	17.32 in. (440 mm)
Depth	15.74 in. (400 mm)

Weight

16.18 lb (7.34 kg)

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Model

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Available Accessories

For a list of available accessories, visit the [CEN-SWPOE-52-ULTRA-TAA](#) 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 or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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