



QUICK START GUIDE

CNGE3FE8MS[POE][HO]

Environmentally Hardened Managed Ethernet Switch
3 SFP + 8 Electrical Ports with Optional 30 or 60 Watt PoE

**This guide serves the following
ComNet Model Numbers:**

CNGE3FE8MS
CNGE3FE8MSPOE
CNGE3FE8MSPOEHO

The ComNet CNGE3FE8MS[POE][HO] has three 100/1000Base-FX SFP ports and eight 10/100Base-TX ports. Two of the SFP ports support 2.5 Gbps SFPs for high speed communication in bandwidth intensive applications. All SFP ports utilize ComNet SFP modules for fiber and connector type and distance. The IEEE802.3-compliant unit offers multiple Ethernet redundancy protocols (MSTP/RSTP/STP/ERPS (G.8032)) which protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network. The switch provides advanced IP-based management that can limit the maximum bandwidth for each connected IP device, allowing the user to adjust usage. Two models are available which supply Power over Ethernet (PoE). The CNGE3FE8MSPOE model provides eight electrical ports supporting up to thirty watts of power. On the CNGE3FE8MSPOEHO model, four of the eight PoE ports can support up to sixty watts of PoE power. All PoE ports are IEEE802.3at compliant.

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Regulatory Compliance Statement

Product(s) associated with this publication complies/comply with all applicable regulations. Please refer to the Technical Specifications section for more details.

Warranty

ComNet warrants that all ComNet products are free from defects in material and workmanship for a specified warranty period from the invoice date for the life of the installation. ComNet will repair or replace products found by ComNet to be defective within this warranty period, with shipment expenses apportioned by ComNet and the distributor. This warranty does not cover product modifications or repairs done by persons other than ComNet-approved personnel, and this warranty does not apply to ComNet products that are misused, abused, improperly installed, or damaged by accidents.

Please refer to the Technical Specifications section for the actual warranty period(s) of the product(s) associated with this publication.

Disclaimer

Information in this publication is intended to be accurate. ComNet shall not be responsible for its use or infringements on third-parties as a result of its use. There may occasionally be unintentional errors on this publication. ComNet reserves the right to revise the contents of this publication without notice.

Safety Information

- » Only ComNet service personnel can service the equipment. Please contact ComNet Technical Support.
- » The equipment should be installed in locations with controlled access, or other means of security, and controlled by persons of authority. When operating at temperatures above 51° C, the equipment surfaces will be hot to the touch. Installation in restricted access location is required for this case.
- » For POE models requiring a power supply not labeled LPS, the unit should be installed in a restricted access location using a 60950-1, 2nd Edition + Am. 1 + Am. 2 Certified power supply rated for the ambient temperature in which it is installed. Total derated power rating should be greater than the sum of the attached loads plus 15 W for the switch.
- » Use CDRH compliant SFP modules when using fiber connectivity with this device.
- » When used in Australia or New Zealand, the product is certified for intra building applications only, and should not be directly connected to network cables with outside plant routing.

Hardware Installation

Installing the Switch on DIN-Rail

Each switch has a Din-Rail kit on the rear panel. The DIN-Rail kit affixes the switch to the DIN-Rail.



It is easy to install the switch on the Din-Rail:

Mount Series on DIN-Rail

Step 1: Tilt the switch and mount the metal spring to DIN-Rail.



Step 2: Push the switch toward the DIN-Rail until you hear the spring snap into place



Wall Mounting Installation

Each switch has another installation method for users to fix the switch. A wall mount panel can be found in the package. The following steps show how to mount the switch on the wall:

Mounting the switch on a wall

Note: For drywall applications where no studs are available, use drywall anchors rated for 50 lbs or more.

In order to prevent switches from being damaged, use appropriate hardware (not supplied) for securing the unit to the wall.

#6 screws with at least ½-inch penetration into wood surface recommended.

Step 1: Remove DIN-Rail kit if it is installed.

Step 2: Remove the two screws at the top of the unit's back panel. Remove only one pair of back panel screws at time (these hold the back panel in place on the unit).

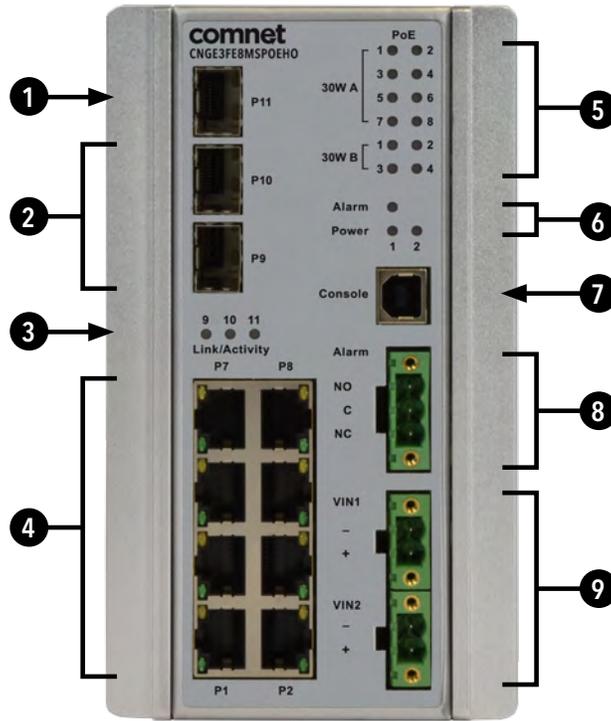
Step 3: Use the same two screws plus one of the included screws to attach the wall mount panel to the top set of screw holes as shown in the diagram below.



Step 4: Repeat Steps 2 and 3 to mount the second wall mount panel on the bottom of the unit's back panel.

ATTENTION: Do not remove the top and bottom panel screws at the same time, or the back panel will detach from the unit. Install the wall mount panels one at a time. When operating at temperatures above 51°C, the equipment surfaces will be hot to the touch. Installation in restricted access location is required for this case.

Hardware Overview



CNGE3FE8MS[POE][HO]

Call-out	Description
1	1 × 100/1000Base-FX SFP Port
2	2 × 100/1000/2500Base-FX SFP Ports
3	Link/Activity LED Indicators for SFP Ports
4	8 × 10/100Base-TX RJ45 Ports
5	PoE LED Indicators (PoE models only)
6	Alarm and Power LED Indicators
7	USB Console Port
8	Fault Relay 3-Pin Terminal Block Connector
9	Redundant Power 2-Pin Terminal Block Connectors

Power Supply

For CNGE3FE8MS Models, Power Supply must be 12 to 57 VDC @ 10 W max.

For CNGE3FE8MSPOE Model, Power Supply must be 44 to 57 VDC @ 250W max.

For CNGE3FE8MSPOEHO Model, Power Supply must be 44 to 57 VDC @ 370W max.

IMPORTANT SAFEGUARDS:

A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Front Panel LEDs

LED	Color	Status	Description
Alarm	Red	On	Alarm Fault Status has been triggered
Power 1 Alarm	Green	On	Power Input on VIN1 terminal block Input
	Red	On	Power lost to VIN1 terminal block
Power 2 Alarm	Green	On	Power Input on VIN1 terminal block Input
	Red	On	Power lost to VIN2 terminal block
PoE (Power over Ethernet)			
30W A	Green	On	MODE A PoE is being supplied on indicated RJ-45 port
30W B	Green	On	MODE B PoE is being supplied on indicated RJ-45 port
Gigabit Ethernet ports			
Link	Green	On	Port in Full Duplex mode
Activity	Amber	Blinking	Data transmitted
Gigabit SFP ports			
Link/Activity	Amber	Blinking	Data transmitted

POEHO 60 W PoE Model

Port 1 to 4 support both mode A and mode B PoE which is 60 W in total. When a greater than 30 W PoE supported device is connected to ports 1 to 4, both 30 W A and B Indicator LEDs will be turned on to indicate the high-power application device is connected.

WEB Management

Attention: While installing and upgrading firmware, please remove physical loop connection first. **DO NOT** power off equipment while the firmware is upgrading!

Configuration by Web Browser

About Web-based Management

An embedded HTML web site resides in the flash memory on the CPU board. It contains advanced management features and allows you to manage the switch from anywhere on the network through a standard web browser such as Microsoft Internet Explorer.

Preparing for Web Management

The default value is as below:

IP Address: **192.168.10.1**

Subnet Mask: **255.255.255.0**

Default Gateway: **192.168.10.254**

User Name: **admin**

Password: **admin**

System Login

1. Launch web browser.
2. Type **http://192.168.10.1**. Press **Enter**.



3. The login screen appears.
4. Key in the username and password. The default username and password is **admin**.
5. Select **Enter** or **OK** button, then the main interface of the Web-based management appears.

Warning - Any changes made to the settings will apply only to the current running configuration of the switch and will be lost in the event of a power cycle. To save any changes made to persistent memory please go to "Maintenance ; Configuration ; Save startup-config" to write the changes to the switches startup configuration.

MECHANICAL INSTALLATION INSTRUCTIONS

ComNet Customer Service

Customer Care is ComNet Technology's global service center, where our professional staff is ready to answer your questions at any time.

Email ComNet Global Service Center: customer care@comnet.net



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