



The ComNet NWPM(XX)48GE DC-to-DC Power over Ethernet (PoE/PoE+) midspan injection modules inject up to 56VDC at 0.625 amperes to any network cable. These DC to DC injection modules are ideal for applications that require 802.3af and 802.3at Power over Ethernet from a 12, 24, or 48 VDC voltage source. Operating power and 10/100/1000T(X) Ethernet data are easily combined on one cable for solutions that require up to 56VDC to the Ethernet cable. The Power Injector has two isolated inputs for connecting 2 power sources. Transmission distances of up to 328 feet (100 meters) are supported. The units have power outputs up to 35W on Ethernet pins 4,5(V+) and 7,8(V-). These DC-to-DC midspan injectors provide line and powered device overvoltage and short circuit protection. Ideally suited for battery powered systems where AC power is not available. The NWP(XX)48GE is a true plug-and-play product requiring no user configuration or other setup.

## FEATURES

- › Easily combines operating power and 10/100/1000T(X) Ethernet data to one network cable
- › Internal 9 to 36, 18 to 36, and 36 to 72 VDC input power supply provides short circuit protection for powered devices
- › Designed for deployment in industrial -25° to +65° C operating environments.
- › Rugged, compact package for installation where space may be limited
- › Ease of installation & true plug-and-play operation: no user configuration or settings required
- › Unit can be wall mounted or DIN rail mounted using the included adaptor kit
- › 5 Year Warranty

## APPLICATIONS

- › Remote operating power for IP CCTV cameras for security and surveillance systems
- › Remote operating power for Voice over IP (VoIP) telephony networks
- › Remote operating power for wireless LAN access points
- › Industrial Security, Transportation/ITS, and Industrial Control/ Factory Automation IP Networks

## SPECIFICATIONS

### Ethernet Standards

IEEE802.3 10BASE-T  
 IEEE802.3u 100BASE-TX  
 IEEE802.3ab 1000BASE-T

### Connectors

RJ45 Data In/Out: Data/signal pairs pin (1,2) (3,6) (4,5) (7,8)  
 RJ45 Power out: Power over pairs: 4,5(V+), 7,8(V-)

### Power

Power Consumption: NWPM1248GE: 1 W plus 17 W Load for PoE  
 NWPM(24,48)48GE: 1 W plus 35 W Load for PoE  
 Input Power Supply: NWPM1248GE: 9 to 36 VDC  
 NWPM2448GE: 18 to 36 VDC  
 NWPM4848GE: 36 to 72 VDC  
 Power Output: NWPM1248GE: 48 VDC @ 0.35 A  
 NWPM(24,48)48GE: 56 VDC @ 0.625 A

### Electrical & Mechanical

Indicating LEDs: PoE Active  
 Size: 12 VDC: 3.3 × 3.0 × 1.4 in (8.5 × 7.6 × 3.6 cm)  
 24/48 VDC: 4.9 × 3.0 × 1.5 in (12.5 × 7.5 × 3.8 cm)  
 Shipping Weight: <0.77 lb / 0.35 kg

### Environmental

MTBF: >100,000 hours  
 Operating Temp: -25° C to +65° C  
 Storage Temp: -40° C to +80° C  
 Relative Humidity: 5% to 90% (non-condensing)

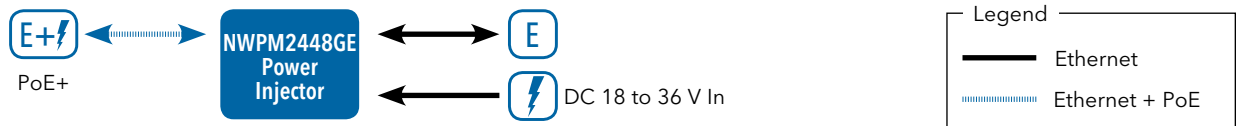
### Approvals & EMC Compliance

EMI: FCC Class B, EN55022 Class B  
 Safety: UL 1950, CSA 22.2, TUV EN60950-1

## ORDERING INFORMATION

Part Number	Description
NWPM1248GE	Industrial Gigabit Power over Ethernet 17 watt midspan injector, compatible with IEEE802.3af PoE for DC-to-DC power applications with 12 VDC Input
NWPM2448GE	Industrial Gigabit Power over Ethernet 35 watt midspan injector, compatible with IEEE802.3af/at PoE+ for DC-to-DC power applications with 24 VDC Input
NWPM4848GE	Industrial Gigabit Power over Ethernet 35 watt midspan injector, compatible with IEEE802.3af/at PoE+ for DC-to-DC power applications with 48 VDC Input
Included Accessories	DIN-Rail Mounting Adaptor Kit

## TYPICAL APPLICATION



Low Power Consumption