

## power over Ethernet (POE) midspan injector for 10/100TX



### Description

ComNet™ CWPOEIPS-15 is a low-cost power over Ethernet (PoE) midspan injection module that injects 48 VDC at 0.3 amperes to the unused pairs of any UTP or STP CAT-3, CAT-4, or CAT-5 network cable. Operating power and 10/100TX Ethernet data are easily combined on one cable, eliminating the need to install additional power outlets and electrical cabling. Housed in a compact, rugged, light-weight package, and utilizing a completely self-contained 100 to 240 VAC input power supply, the CWPOEIPS is fully compliant with the requirements of IEEE 802.3af for Power Sourcing Equipment (PSE), and features auto-detection of powered devices (PDs). Transmission distances of up to 330 feet (100 meters) are supported, and this injector supplies operating power for all PDs drawing a maximum of 15.4 watts. The unit provides AC line and powered device over-voltage and short circuit protection. Ideally suited to fiber optic, wireless, or other networks where it may be difficult to furnish operating power to the PDs, the CWPOEIPS is a true plug-and-play product requiring no user configuration or other set-up. The unit is designed for deployment in benign/conditioned 0 to +45 degree C operating environments.

### 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

### Features

- Easily Combines Operating Power and 10/100TX Ethernet Data to One Network Cable
- Fully Compliant with IEEE Standard 802.3af for Power Sourcing Equipment
- Internal 100 to 240 VAC Power Supply Provides Short Circuit Protection for Powered Devices
- Rugged, Compact Package for Installation Where Space May Be Limited
- Ease of Installation & True Plug-and-Play Operation: No User Configuration or Settings Required
- UL, CUL, FCC, CE, EN60950-1, and RoHS Approved
- 5-Year Warranty

specifications

**STANDARD**

IEEE802.3 10BASE-T  
IEEE802.3u 100BASE-TX  
IEEE802.3af

**CONNECTOR**

RJ45 Data In/Out:

Data/signal pairs pin 1,2,3,6

RJ45 Power out:

Power over spare wire pairs pin: 4,5(V+), 7,8(V-)

**NETWORK CABLE**

10BASE-T:

UTP/STP Cat.3,4,5 cable  
EIA/TIA-568 100 ohm (100m)

100BASE-TX:

UTP/STP Cat.5 cable  
EIA/TIA568 100 ohm (100m)

**POWER**

Power Consumption:

19W

Input Power Supply:

AC 100~240V, 50~60Hz,0.3A

Power Output:

48V @ 0.3A

**LED INDICATORS**

System:

Power (green)

**ENVIRONMENTAL**

Operating Temperature

0°C – 45°C

Storage Temperature

-40°C – 70°C

Operating Humidity

10% – 90% Humidity (non-condensing)

Size (L x W x H):

117mm x 60mm x 35mm  
(4.6 in x 2.3 in x 1.4 in)

**APPROVALS AND EMC COMPLIANCE**

EMI

FCC Class B, CE

Safety

UL, cUL, CE/EN60950-1

| PART NUMBER | DESCRIPTION                                                       |
|-------------|-------------------------------------------------------------------|
| CWPOEIPS-15 | Power over Ethernet midspan injector, compatible with IEEE802.3af |

