



The ComNet PIM1 is a low-cost industrial passive power over Ethernet (PoE) midspan injection module that injects a passive voltage of 12 to 48 VDC at up to 0.625 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, the unit is powered by a customer furnished power supply. The PIM1 provides passive power at the same voltage level as the input power supply and can be used to power any devices that do not require IEEE 802.3af/at negotiation such as many legacy PoE devices. Transmission distances of up to 330 feet (100 meters) are supported, and this injector supplies operating power for devices drawing a maximum of 30 watts. The PIM1 is a true plug-and-play product requiring no user configuration or other set-up.

FEATURES

- › Easily Combines Operating Power and 10/100TX Ethernet Data to One Network Cable
- › Powered by an external 12-48VDC or 24VAC power supply to provide flexible operating power for non-standard PoE 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
- › Lifetime 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

Connectors

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 (100 m)

Power

Power Consumption	30 W Max
Input Power Supply	12 to 48 VDC or 24 VAC
Power Output	Same Voltage As Input (0.625 A Max)

Mechanical

Indicator LED	Power
Circuit Board	Meets IPC Standard
Size	2.3 × 1.6 × 1.1 in (5.7 × 4.1 × 2.8 cm)
Shipping Weight	<1 lb./0.45 kg

Environmental

MTBF	>100,000 Hours
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Operating Humidity	0% to 95% (non-condensing) ¹

Ethernet Standards

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

Approvals and EMC Compliance

EMI	FCC Class B, CE
Safety	UL, cUL, CE/EN60950-1



ORDERING INFORMATION

Part Number	Description
PIM1	Passive Power over Ethernet industrial midspan injector
Options	Power Supply (Extra charge, consult factory for suitable power supply for your application) [1] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit - With mounting hardware (Optional, order model DINBKT4)

TYPICAL APPLICATION

