



INCLUDED



-40° TO +65°



1000 MBPS



802.3at



The ComNet CNGE1IPS is an industrial power over Ethernet (PoE+) midspan injection module that injects 55 VDC at 0.55 amperes to any network cable. Operating power and 10/100/1000T(X) Ethernet data are easily combined on one cable, eliminating the need to install additional power outlets and electrical cabling. The CNGE1IPS is fully compliant with the requirements of IEEE 802.3at 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 30 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 CNGE1IPS is a true plug-and-play product requiring no user configuration or other set-up.

## FEATURES

- › Easily combines operating power and 10/100/1000T(X) Ethernet data to one network cable
- › Fully Compliant with IEEE Standard 802.3at for Power Sourcing Equipment
- › Housed in a compact, IP40, light-weight package
- › Internal 100 to 240 VAC power supply provides short circuit protection for powered devices
- › Designed for deployment in industrial -40° to +65° C operating environments.
- › Compact package for installation where space may be limited
- › Ease of installation & true plug-and-play operation: no user configuration or settings required
- › UL, CSA, FCC, CE, EN60950-1, and RoHS Approved
- › 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
- IEEE802.3at PoE+

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 30W Max
- Input Power Supply AC 100 to 240 V, 1.0 A, 50/60 Hz
- Power Output 55 VDC, 550 mA

AC Surge Protection

- 1.0KV (5P/5N)
- L-N 1.2/50 (8/20) Tr/Th us
- 2.0KV (5P/5N)
- L-PE 1.2/50 (8/20) Tr/Th us
- N-PE"

PoE Surge Protection

- Common mode surge protection (10/700us): 6Kv
- Differential mode surge protection (10/700us): 1.5Kv

Environmental

- MTBF >50,000 hours
- Operating Temp -40° C to +65° C
- Storage Temp -40° C to +85° C
- Operating Humidity 20% to 80% (non-condensing)
- Storage Humidity 10% to 90% (non-condensing)

Approvals & EMC Compliance

- EMI FCC CFR47 Part 15, EN55024, EN55032
- Vibration IEC60068-2-6
- Impact IEC60068-2-27
- Free Fall IEC60068-2-32
- EMS IEC61000-4-2(ESD) ± 6kV(contact), ±8kV(air)
- IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
- IEC61000-4-4(EFT) Power Port: ±2kV; Data Port: ±1kV
- IEC61000-4-5(Surge) Power Port: ±1kV/DM, ±2kV/CM
- IEC61000-4-6(CS) 10V(150kHz~80MHz)

ORDERING INFORMATION

Part Number	Description
CNGE1IPS	Industrial Gigabit Power over Ethernet midspan injector, 55Vdc/0.55A/1000Mbps/(4,5+,7,8-) /Surge Protection/Active, compatible with IEEE802.3at
Included Accessories	Country-specific line cord DIN-Rail Mounting Adaptor Kit

TYPICAL APPLICATION

