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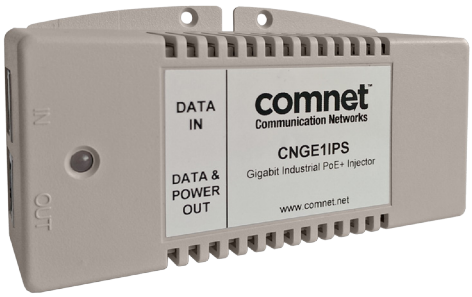

INSTALLATION AND OPERATION MANUAL

CNGE1IPS

POWER OVER ETHERNET (POE+) MIDSPAN INJECTOR FOR 10/100/1000T(X)

The ComNet™ CNGE1IPS is an industrial power over Ethernet (PoE+) midspan injection module that injects 56 VDC at 0.625 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.

A single LED indicator confirms equipment operating status. **Figure 3** on **Page 2** describes the LED indicators for the unit.

FIGURE 1 – CONNECTIONS

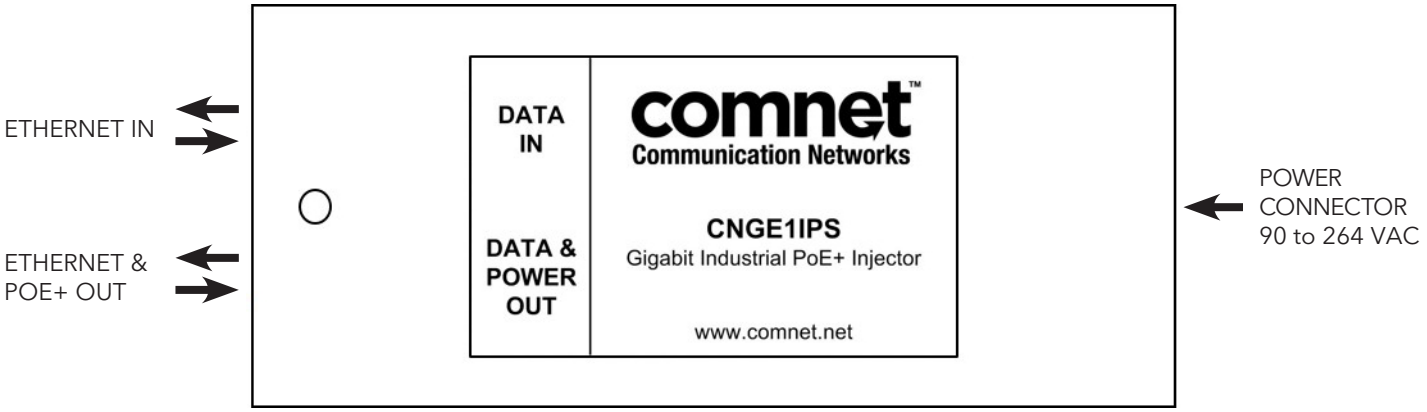

FIGURE 2 – PIN OUT

	RJ-45 Input (Data Only)		RJ-45 Output (Data & Power)	
Pin	**Symbol**	**Description**	**Symbol**	**Description**
1	BI_DA+	Data Pair A+	BI_DA+	Data Pair A+
2	BI_DA-	Data Pair A-	BI_DA-	Data Pair A-
3	BI_DB+	Data Pair B+	BI_DB+	Data Pair B+
4	BI_DC+	Data Pair C+	+Vdc + BI_DC+	power(+) + Data Pair C+
5	BI_DC-	Data Pair C-	+Vdc + BI_DC-	power(+) + Data Pair C-
6	BI_DB-	Data Pair B-	BI_DB-	Data Pair B-
7	BI_DD+	Data Pair D+	-Vdc + BI_DD+	power(-) + Data Pair D+
8	BI_DD-	Data Pair D-	-Vdc + BI_DD-	power(-) + Data Pair D-

FIGURE 3 – LED INDICATOR

COLOR	STATUS
GREEN	PoE Device Detected and Powered Up
OFF	Unit Powered Down
RED	Mains Power Applied But No PoE Device Detected

INSTALLATION CONSIDERATIONS

Units should be installed in dry locations protected from extremes of temperature and humidity.

IMPORTANT SAFEGUARDS:

A) Elevated Operating Ambient - Consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

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

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