The ComNet™ CN1IPSbt-DC is a Type 4 defined industrial grade PoE injector with backward compatibility as defined by IEEE802.3at-2009 and IEEE802.3af-2003.

Purpose Built Professional Security

The ComNet CN1IPSbt-DC is an industrial grade / environmentally hardened PoE injector that complies with the PoE standard as defined by the IEEE 802.3bt Type 4 while maintaining backward compatibility with the previous standards as defined by IEEE802.3at-2009 and IEEE802.3af-2003.

The media converter consists of one 10/100/1000/2.5G/5G/10GBASE-T(X) RJ-45 Ethernet port and one auto-negotiating 10/100/1000/2.5G/5G/10GBASE-T(X) RJ-45 PSE port. When supplied with an operating power input of 52 to 56 VDC, PoE that is compliant with the PoE standard as defined by IEEE 802.3bt Type 4 is injected, capable of delivering up to 90 W of PoE to a compliant powered device (PD). CN1IPSbt-DC is designed to allow for optional redundant operating power inputs.

Key Features

- Plug-and-play design

- IEEE 802.3bt compliant

- 10/100/1000BASE-T(X) port supports auto-negotiation and automatic MDI/MDI-X

- Easily combines power and 10/100/1000BASE-T(X) Ethernet

- Housed in a compact, rugged, light-weight package

- Provides up to 90 Watts of PoE for ultra high power PDs

- Designed for installation in harsh out-of-plant/ unconditioned industrial or roadside operating environments (-40° to+75°C ambient).

CN1IPSbt-DC
IEEE 802.3bt PoE Injector

Optical Transmission

- Remote operating power for IP cameras, VoIP telephones, and wireless access points

- IP-addressable factory automation/process control devices, transportation/ITS systems, access control systems, intercom systems, VOIP, and camera surveillance networks

Specifications

Inputs and Outputs

Ethernet port	10/100/1000/2.5/5/10GBASE-T(X) Ethernet
PSE port	10/100/1000/2.5G/5G/10GBASE-T(X) Ethernet injected with IEEE802.3bt-compliant PoE
PoE Pin Assignment	1(V−), 2(V−), 3(V+), 6(V+) 4(V+), 5(V+), 7(V−), 8(V−)
Operating power	Redundant 52 to 56 VDC

Physical Interface Information

Ethernet port	8P8C (RJ-45) modular jack (receptacle)
PSE port	8P8C (RJ-45) modular jack (receptacle)
Operating power	4-pin screw clamp terminal strip, 14 AWG to 22 AWG 2 (two) five-foot, 18/2 red/black pair included for operating power inputs

Operating Power Parameters

Operating voltage range	52 VDC to 56 VDC
Power consumption	5 W, without PoE Reverse polarity protection Redundant operating power inputs Environmentally hardened power supply, ComNet item number PS-DRA240-48A as needed

Mounting

DIN rail and wall mount brackets included Mountable to standard 35 mm DIN rail (DIN 3), either profile - TS-35 x 7.5 or TS-35 x 15

Indicator LEDs

Operating power status PSE status

Environmental

Operating Temp	−40 °C to +75 °C
Storage Temp	−40 °C to +85 °C
Relative Humidity – Operating	5 % to 95 %, non-condensing
Relative Humidity – Storage	5% to 95 %, non-condensing
Cooling	Convection cooled – user should provide sufficient space around the device for a passive convective cooling air path
MTBF	> 100,000 hr

Approvals & EMC Compliance

TAA NDAA UL/ULC CE FCC NEMA

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT CE c(UL)us RoHS

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