



**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.**

**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.

## Typical Applications

- ✓ 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

## 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 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

### 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
Dimensions	Length (L): 4.1 in/103.5 mm Width (W): 1.3 in/32 mm Depth (D): 3.2 in/81.5 mm
Weight	Complete Package: 0.80lb/0.36kg Module with Bracket Mount: 0.40lb/0.18kg

#### Operating Power Parameters

Operating voltage range	52 VDC to 56 VDC
Power consumption	1 W, without PoE Reverse polarity protection Redundant operating power inputs Environmentally hardened power supply, ComNet item number PS-MORD48240 is recommended

#### 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 (-40°F to +167°F)
Storage Temp	-40°C to +85°C (-40°F to +185°F)
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

