

PI6014

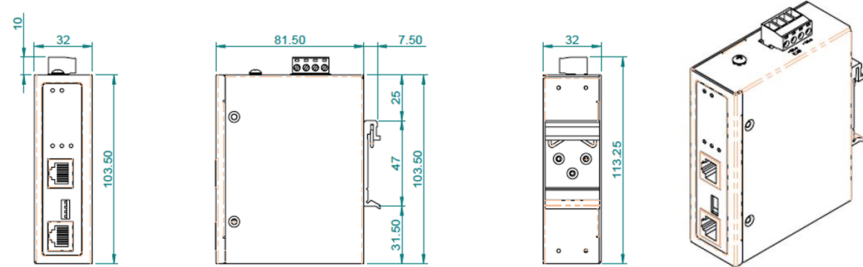
Industrial Gigabit POE Injector



This Super Voltage Booster --- 60 Watts, high power Single port industrial POE Injector is equipped with our high efficiency ColdDesign technology which allows low input voltage, such as 24/48/56 VDC be boost up to 55VDC to provide 60Watts to 72 watts power to your security equipment by a 4-pin selectable dip switch. The ColdDesign technology will not only boost up Input Voltage, also reduce the excessive heat problem to a minimum. It accepts the input voltage as low as 24/48 VDC to boost up to 55V to meet IEEE802.3af/at required voltage. This built-in 4 pin dip switches are able to select POE for Mode B or Mode A, to select standard IEEE802.3at 30Watts or high power 36Watts, and to select 2 pair or 4 pair for 30/36Watts or 60/72Watts power output. It is being rigorously tested for your Security, Transportation and Telco application.

- ▶ Industrial Gigabit POE Injector with voltage booster
- ▶ 60 Watts, selectable Mode A and Mode B
- ▶ Accept 24/48/56 VDC to boost up voltage to 55V for 60/72 Watts application
- ▶ 1x10/100/1000M TX PSE (802.3af/at POE+) TX, 1x10/100/1000M TX
- ▶ Operating temp: -40°C to +75°C

Dimension:



Technical Specifications

Industrial Gigabit POE Injector

Model#
PI6014

IEEE Standard
IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX Fast Ethernet
IEEE 802.3ab 1000Base-T Gigabit Ethernet
IEEE802.3af for POE
IEEE802.3at for POE+

Network connector
1xRJ-45 10/100/1000BaseT(X) Data
1xRJ-45 10/100/1000BaseT(X) Data with POE Output power

Network Cable
UTP/STP above Cat.5e Cable
EIA/TIA-568 10-ohm (100m)

Protocol / POE power
CSMA/CD / Maximum POE power 72watts at 24/48VDC input

Housing
Rugged Metal, IP30 Protection

LED
PW1(power 1) Green: ON- power good, OFF-power failed
PW2(power 2) Green: ON- power good, OFF-power failed
Mode A : ON- End Span PD detected
Mode B: ON – Mid Span PD detected
4 Pair: ON – 60W PSE in active mode. OFF – 30W PSE in active mode.

POE Pin Assignment
Default: Mode A (End Span) V+, V+, V-, V- for pin 1, 2, 3, 6
DIP switch setting can be changed to Mode B, V+, V+, V-, V- for pin 4, 5, 7, 8

Operating temperature / Operating Humidity / Storage temperature
-40°C ~ 75°C fully tested / 5% to 95% (Non-condensing) / -40°C ~ 85°C

Case Dimension (L x W x D) / Installation

103.5mmx32mmx81.5mm / DIN Rail mounting and Wall Mounting

Reserve polarity protection & Overload current protection
Present

Power consumption / Power supply
1 W @24/48 VDC full load, Without POE / 2 Redundant power source, 18V ~ 56V VDC
Power Input

Removable terminal block
Provide 4 pin terminal block
Wire range: 0.34mm ² to 2.5mm ²
Solid wire (AWG):12-24/14-22
Stranded wire(AWG): 12-24/14-22
Torque:5lb-In/0.5Nm/0.56Nm
Wire Strip length: 7-8mm

MTBF (mean time between failure)
510,304 hrs (MIL-HDBK-217F) at 25°C

Certifications	
EN55022/24	ITE equipment
EN55011	Industrial, Scientific and Medical (ISM) equipment
EN50121-3-2	Railway Applications – Electromagnetic Compatibility – Part 3-2 Rolling Stock - Apparatus
EN50121-4	Railway Applications – Electromagnetic Compatibility – Part4 Emissions and Immunity of the Signaling and Telecommunications Apparatus
Safety	IEC EN60950-1
EMC/EMS	CE, FCC, VCCI
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A
EN 50155 / EN 60068-2-6	Vibration
EN 50155 / EN 60068-2-27	Shock
EN 50155 / EN 60068-2-32	Free Fall

DIP Switch
To select 2 pair (30/36Watts) or 4 pair (60/72Watts)
To select Mode A, or Mode B
To select standard IEEE802.3at 30watts or high power POE 36Watts