INJ 1000 DIN Rail PoE Injectors

perle.com/products/poe-injectors/din-rail-inj-1000.shtml

IEEE 802.3bt/at/af Mid-span Injector up to 60W

- 10/100/1000 Mbps
- Supply PSE power to PoE, PoE+ and Hi-PoE compliant devices
- Provide 4 to 60 Watts of PoE power
- IEEE 802.3af, IEEE802.3at and IEEE802.3bt compliant
- Support for PoE PDs: Class 1 to 6 & Type 1, 2 and 3
- Extended supply voltage range of 18 V DC ... 57 V DC, redundant
- Safe shield connection to ground potential
- Optional Extended temperature range of -40°C to +75°C

INJ 1000 PoE Injectors are DIN Rail mounted single port, **PoE mid-span injectors**. They act as an intermediary devices between a non-PoE switch and a PoE device to inject **fully compliant** power over the Ethernet cable.

Generating up to 60 Watts, the INJ 1000 provides electrical power to remote PD access points, pantilt and zoom (PTZ) cameras and video-phones. It complies with the IEEE802.3bt Hi-PoE (60W of power) or IEEE 802.3at PoE+ (30W of power) standards and is also backward compatible with IEEE802.3af PoE (15.4W of power). Learn more about PoE.

With the INJ 1000, there is no need to buy an expensive PoE switch or install electrical wiring and outlets in hard to reach locations. Just use and open port on an existing non-PoE switch to save time and money by sending power and data over the same cable.

INJ 1000 PoE Injector Benefits

DIN Rail Enclosure	Easily mount on a DIN rail or inside distribution boxes using native DIN Rail enclosure with grounding clip. No need for add-on brackets.
Power Over Ethernet (PSE)	Performs the Power Sourcing Equipment (PSE) function on 1 UTP port for IEEE 802.3af (up to 15.4 watts PoE), IEEE 802.3at (up to 30 watts PoE+) or IEEE802.3bt (up to 60 watts Hi-PoE) compliant devices.

On-board PoE Power Controller	proper device	y sensing through s	signature detection or not. This provid	n whether or n les a safe con	sioning and monitoring, ot the attach Ethernet nection for both PoE and	
Advanced Power Management	• (PD signature detection Current limiting protection Over-Current Protection PD power classification detection (Class 0,1,2,3,4,5,6) Reverse polarity protection				
		INJ 1000 27030058	INJ 1000-T 27030068	INJ 1010 27030078	INJ 1010-T 27030088	
Serial interfac	ce					
Interface 1		Ethernet				
Connection me	ethod	RJ45 socket				
Transmission I	length	100 m (including	patch cables)			
Pin assignmer	nt	1:1				
Basic function	s	PSE/Midspan, co	mpliant with IEE	E 802.3af, at		
Serial transmis speed	ssion	10/100/1000 Mbp	S			
Output nomina voltage	al	54 V DC (PoE)				
Output power		30 W		60 W		
Interface 2		Ethernet				
Connection me	ethod	RJ45 CAT5e				
Ambient cond	ditions					
Ambient tempe (operation)	erature	0°C 60°C	-40°C 75°C	0°C 60°C	-40°C 75°C	

Ambient temperature (storage/transport)	-40°C 85°C		
Permissible humidity (operation)	10 % 95 % (non-condensing)		
Altitude	5000 m (For restrictions see manufacturer's declaration) / 2000 m (W approval)	/ith UL	
Degree of protection	IP20 (Non-certificated by UL)		
General			
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU		
Mounting position	vertical		
Net weight	396.6 g 377.8 g 380.8 g 380.6 g		
Housing material	Plastic		
Color	Gray		
Conformance	CE-compliant		
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D, T4		
Standards and Regul	ations		
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU		
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6		
Test result	10 Hz 57 Hz, amplitude ±3.5 mm, 57 Hz 150 Hz, 5g		
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27		
Test result	30g for 11 ms, three shocks in each spatial direction		
Type of test	Continuous shock according to EN 60068-2-Continuous shock27/IEC 60068-2-27according to EN 6027/IEC 60068-2-2727/IEC 60068-2-27	068-2-	
Test result	10g for 16 ms, 1000 shocks in each spatial direction		

Standards/regulations	EN 61000-4-2	
Contact discharge	± 6 kV (Test Level 3)	
Indirect discharge	± 6 kV	
Standards/regulations	EN 61000-4-3	
Frequency range	80 MHz 3 GHz (Test Level 3)	
Standards/regulations	EN 61000-4-4	
Comments	Criterion B	
Standards/regulations	EN 61000-4-5	
Signal	± 1 kV (Data line, asymmetrical)	
	± 2 kV (I/O cable on field side o	nly, asymmetric)
Standards/regulations EN 61000-6-4		
	EN 61000-4-6	
Frequency range	0.15 MHz 80 MHz	
Conformance	CE-compliant	
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D, T4	
Noxious gas test	ISA-S71.04-1985 G3 Harsh Group A	
Dimensions		
Width	30.2 mm	
Height	130 mm	
Depth	120 mm	
Note		
Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area	EMC: class A product, see manufacturer's declaration in the download area
Power supply		

DC 57 V DC (Ordinary loca 24 V DC 48 V I	48 V DC ations) DC (Hazardous locations)
24 V DC 48 V I	
A	DC (Hazardous locations)
1.4 A (24 V DC)	2.73 A (24 V DC)
0.7 A (48 V DC)	1.34 A (48 V DC)
W	
erse polarity protection	
mm²	
mm²	
mm²	
mm²	
npliance	
17439-92-1	
	0.7 A (48 V DC) W erse polarity protection mm ² mm ² mm ² mm ²

China RoHS

Environmentally Friendly Use Period = 10;





INJ 1000 PoE Injector Dimensional drawing of Compact housing

Two RJ45 Sockets



INJ 1000 PoE Injector Front View

Two RJ45 Sockets



