

TINJ-101GT-M12-24V



ORing WEB-site

➤ **EN50155 Industrial 1-port Gigabit PoE Injector with 30W output, railway 24V Input, M12 connector**

Features

- Leading EN50155-compliant for rolling stock application
- Supports 1x10/100/1000 Base-T(X) for power and data Output
- Fully compliant with IEEE802.3at/802.3af
- Auto protection for Over Voltage Power Input and over current output
- Supports Power Output up to 30Watts
- Supports Power Input range from 12 to 57Vdc
- Ultra-rugged enclosure M12 connector for toughest industrial usages
- Wall mounting enabled

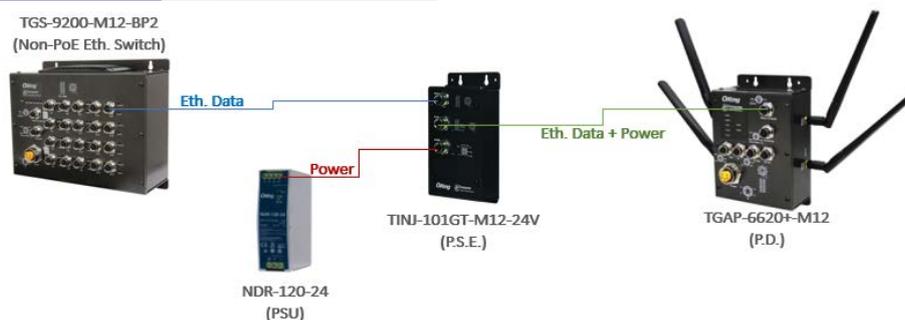


Introduction

ORing's Transporter™ series PoE Injectors are designed for industrial applications, such as rolling stock, vehicle, and railway applications. The TINJ-101GT-M12 PoE Injector is an advanced IEEE802.3at compliant device with Intelligent Detection that provided 1-port 10/100/1000 Base-T(X) PoE output which is compliant with EN50155 requirement. It is specifically designed for the toughest industrial environments. TINJ-101GT-M12 EN50155 PoE Injector use M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. The device does not turn on power until it detects a valid PoE signature from the PoE devices attached downstream on the Ethernet cable. This protection against damage to non-PoE compliant equipment which may be connected to the Ethernet cable. Because of this intelligent detection, only an IEEE 802.3at/802.3af compliant device can be powered with the TINJ-101GT-M12 PoE Injector. Typically, in Ethernet networks the maximum allowable CAT5 cable length is about 100 meters, due to the limitation of the Ethernet standards. Because of its 50V insertion, the installer doesn't need to worry about voltage drops caused by cable length. The TINJ-101GT-M12 PoE Injector can function with any PoE P.D. equipment which is fully compliant with the IEEE 802.3at/802.3af PoE standards.

Note: The equipment being powered must be fully IEEE 802.3at/802.3af compliant in order for the power supply to be able to sense the PoE devices signature and apply power. Power is supplied on Ethernet pins 4/6 (V+) and 5/8 (V-).

Connection



Specifications

ORing Switch Model	TINJ-101GT-M12-24V
Physical Ports	
10/100/1000Base-T(X) with P.S.E. Port in M12 Auto MDI/MDIX	1 (8-pin M12 female A-coding)
10/100/1000Base-T(X) Port in M12 Auto MDI/MDIX	1 (8-pin M12 female A-coding)
Operating Voltage	
Input Voltage	Railway 24VDC (12 ~ 57VDC) on 5-pin M12 female A-coding
Output Power	50V / 600mA, 30 Watts max.
LED indicators	
Power Indicator (PWR)	PWR / Ready: 1 x LED Green On: Power is on and functioning Normally.
PoE Indicator	1 x LED Blue On: PoE Device Link Blue Blinking: Detecting PoE Device Blue Off: None PoE Device Detected
Protection	
Short Circuit Protection	Present
Over Load Protection	Present
Physical Characteristic	
Enclosure	IP-40
Dimension (W x D x H)	88.9 (W) x 40 (D) x 178.2 (H)mm 3.5 (W) x 1.57 (D) x 7.02 (H) inch
Weight (g)	446 g
Environmental	
Storage Temperature	-40 to 80°C (-40 to 176°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 90% Non-condensing
Regulatory approvals	
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15 B, EN 50155(EN 50121-1, EN 50121-3-2)
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A
EMS	IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN 61000-4-8(PFMF), IEC/EN 61000-4-11 (DIP))
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 60950-1
Other	EN 50155
MTBF	2,502,228 hrs.
Warranty	5 years

Ordering Information

TINJ-10AGT-M12-BBB



Code Definition	10/100/1000Base-T(X) P.S.E. Port Number	Input Voltage
Option	- 8 : 8 ports	- 24V : 12 ~ 57VDC power input

Available Model	Model Name	Description
	TINJ-101GT-N12-24V	EN50155 Industrial 1-port Gigabit PoE Injector with 30W output, railway 24V Input, M12 connector
Packing List	<ul style="list-style-type: none"> TINJ-101GT-M12-24V x 1 Quick Installation Guide x 1 	Optional Accessories <ul style="list-style-type: none"> M12 cable series