

TXPS-141XT-M12 Series

EN50155 5-port unmanaged PoE Ethernet switch with 4x10/100/500Base-T(X)P.S.E. and 1x10/100/500Base-T(X), M12 connector

Features

- Supports 4 x 10/100/500 Base-T(X) with P.S.E. PoE ports
- 4 port P.S.E. fully compliant with IEEE802.3at standard, provide up to 30 Watts per port
- Support auto-negotiation and auto-MDI/MDI-X
- > Support store and forward transmission
- Support flow control
- Support broadcast storm protection
- Ultra-rugged enclosure M12 connector for toughest industrial usages
- Wall mounting enabled









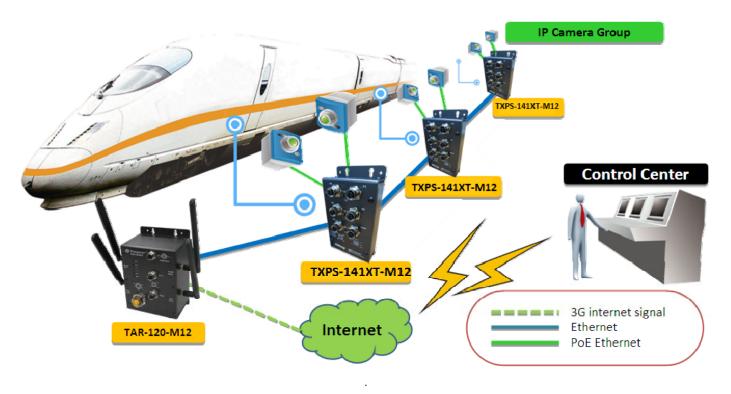
Introduction

ORing's Transporter™ series Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. TXPS-141XT-M12 series are unmanaged PoE Ethernet switch with 4x10/100/500Base-T(X) P.S.E. ports and 1x10/100/500Base-T(X) port which is compliant with EN50155 requirement. It is specifically designed for the toughest industrial environments. TXPS-141XT-M12 series EN50155 Ethernet switch use M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock.

TXPS-141XT-M12 series also support Power over Ethernet, a system to transmit electrical power up to 30 watts, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. TXPS-141XT-M12 series switch has 4x10/100/500Base-T(X) P.S.E. (Power Sourcing Equipment) port to provide power in a PoE setup. The very wide operating temperature range from -40 °C to 75°C can satisfy most operating environment.

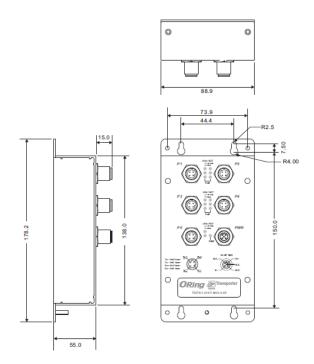
Practical Operation

TXPS-141XT-M12 series can be used in connecting several Ethernet devices which need to operated under harsh environment requirement. The designs of rugged housing and wide operating temperature range from -40 \sim 75°C, makes TXPS-141XT-M12 series reliably in any kinds of transporter applications.

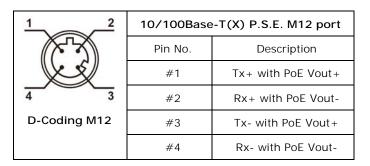


Dimension

Dimension (Unit = mm)



Pin Definition



Specifications

ORing Switch Model	TXPS-141XT-M12-24V	TXPS-141XT-M12-MV	
Physical Ports			
10/100/500Base-T(X) with P.S.E. Ports in M12 Auto MDI/MDIX	4 x 4-pin D-coding M12 female connector		
10/100/500Base-T(X) Port in M12 Auto MDI/MDIX	1 x 4-pin D-coding M12 female connector		
Technology			
	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX		
Ethernet Standards	IEEE 802.3x for Flow control		
	IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)		
Processing	Store-and-Forward		
LED indicators			
Power indicator	Green: Power LED x 1		
10/100/500Base-T(X) M12 port with	Top Green for port Link/Act at 10/100Mbps		
P.S.E. indicator	Middle Green for port Link/Act at 500Mbps Bottom Blue for PoE indicator		
10/100/500Base-T(X) M12 port	Top Green for port Link/Act at 10/100Mbps		
indicator	Bottom Green for port Link/Act at 500Mbps		
Power			
Input Power	24 (12~57) VDC power input on 5-pin A-coding M12 male connector	72/110 (50.4~137.5) VDC power input on 5-pin A-coding M12 male connector	
Power Consumption (Typ.)	2 Watts	5 Watts	
PoE Output Power	60 Watts	60 Watts	
Overload Current Protection	Present		
Reverse Polarity Protection	Present		
Physical Characteristic			
Enclosure	IP-30	IP-30	
Dimension (W x D x H)	88.9 x 55 x 178.2 mm		
Weight (g)	643 g	771 g	
Environmental			
Storage Temperature	-40 to 85°C (-40 to 185°F)		
Operating Temperature	-40 to 75°C (-40 to 167°F)		
Operating Humidity	5% to 95% non-condensing		
Regulatory approvals			
EMI	FCC Part 15, CISPR (EN55032) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4)		

EMS	EN 55024: EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27, EN61373
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
Other	EN50155
Warranty	5 years

Ordering Information



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Code Definition	10/100/500Base-T(X) P.S.E. Port Number	Additional Port Number with 10/100/500Base-T(X)
Option	- 4 : 4 ports	-1: 1 port
	Model Name	Description
Available Model	TXPS-141XT-M12-24V	EN50155 5-port unmanaged PoE Ethernet switch with 4x10/100/500Base-T(X) P.S.E. and 1x10/100/500Base-T(X), M12 connector, 24VDC power input
	TXPS-141XT-M12-MV	EN50155 5-port unmanaged PoE Ethernet switch with 4x10/100/500Base-T(X) P.S.E. and 1x10/100/500Base-T(X), M12 connector, 110VDC power input

Packing List

- TXPS-141XT-M12 series x
- Quick Installation Guide x 1

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Optional Accessories

M12 cable series