

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













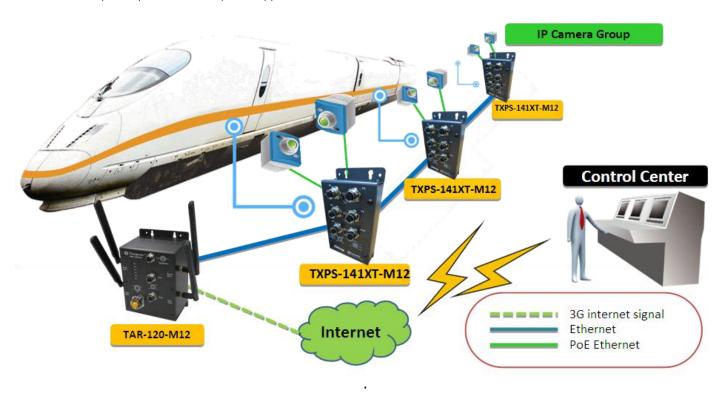


Introduction

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.

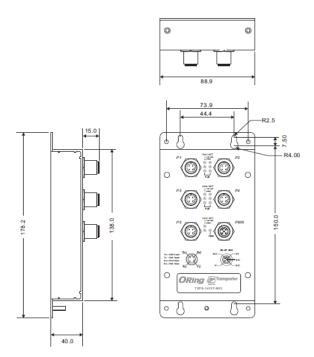
Practical Operation

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.



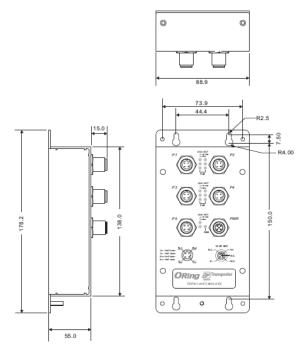
Dimension

Dimension (Unit =mm)



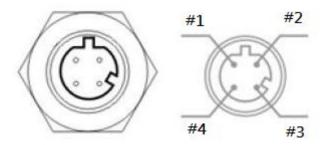
TXPS-141XT-M12

Dimension (Unit = mm)



TXPS-141XT-M12-24V/MV

Pin Definition



M12 D-coding Pin Definition				
Pin No.	Description			
#1	TX+ with PoE Vout+			
#2	RX+ with PoE Vout-			
#3	TX- with PoE Vout+			
#4	RX- with PoE Vout-			

Specifications

ORing Switch Model	TXPS-141XT-M12	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 M12 connector (4-pin M12 D-coding)			
10/100/500Base-T(X) Port in M12 Auto MDI/MDIX	1 x M12 connector (4-pin M12 D-coding)			
Technology				
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX 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 P.S.E. indicator	Top Green for port Link/Act at 10/100Mbps 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 500	Mbps		
Power				
Input Power	50 ~ 57VDC power input on M12 connector (5-pin M12 A-coding)	12~57VDC power input on M12 connector (5-pin M12 A-coding)	72~110VDC power input on M12 connector (5-pin M12 A-coding)	
Power Consumption (Typ.)	1 Watts	2 Watts	5 Watts	
PoE Output Power	120 Watts	60 Watts (12~24VDC) / 120 Watts (24~57VDC)	60 Watts	
Overload Current Protection	Present			
Reverse Polarity Protection	Present			
Physical Characteristic				
Enclosure	IP-40	IP-40		
Dimension (W x D x H)	88.9 x 40 x 178.2 mm	88.9 x 55 x 178.2 mm	88.9 x 55 x 178.2 mm	
Weight (g)	511	643	771	
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 (EN55022) class A	, EN50155 (EN50121-3-2, EN55011	, EN50121-4)	
EMS	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, EN61373			
Safety	EN60950-1			
Warranty	5 years			

Ordering Information



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

Available	Model Name	Description
Model	TXPS-141XT-M12	EN50155 5-port unmanaged PoE Ethernet switch with 4x10/100/500Base-T(X) P.S.E. and 1x10/100/500Base-T(X), M12 connector
Т	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