



TES-150-M12

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➔ *EN50155 5-port unmanaged Ethernet switch with 5x10/100Base-T(X), M12 connector*

Features

- Leading EN50155-compliant Ethernet switch for rolling stock applications
- Supports 5 ports 10/100 Base-T(X)
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store-and-forward transmission
- Supports flow control
- Ultra-rugged enclosure with M12 connectors for toughest industrial usages
- Wall mounting enabled

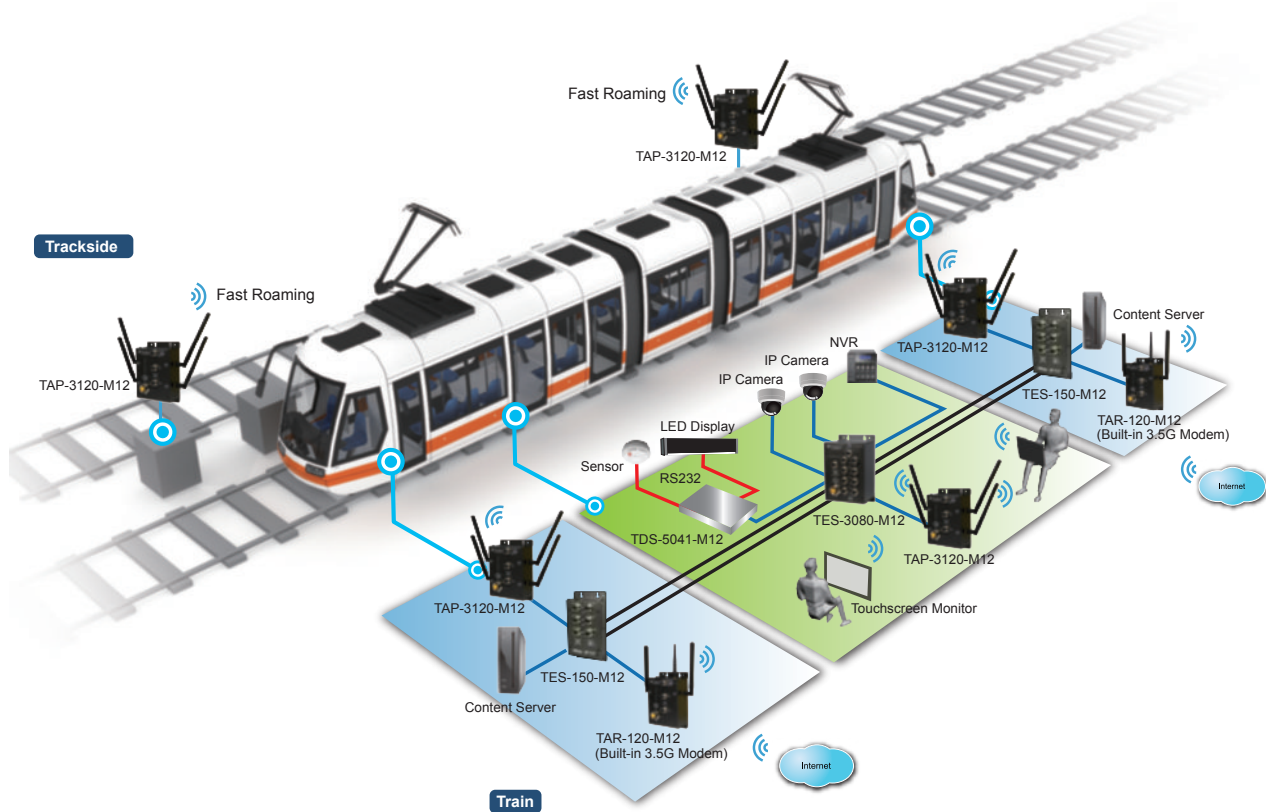


Introduction

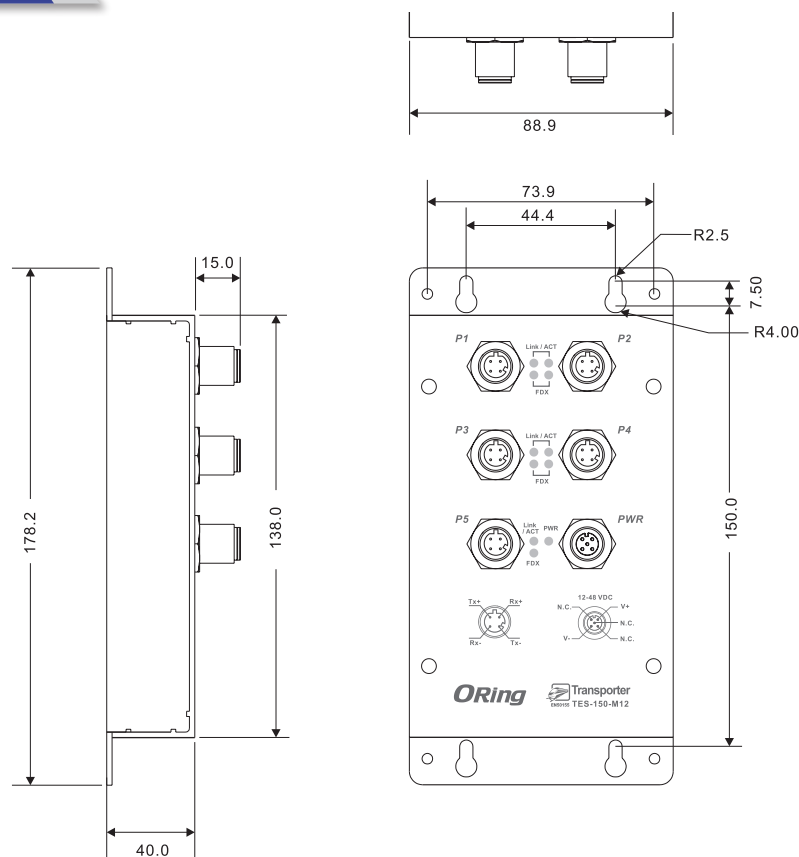
ORing's Transporter series Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. TES-150-M12 is an unmanaged Ethernet switch with 5x10/100Base-T(X) ports which is compliant with EN50155 standard. It is specifically designed for the toughest industrial environments. TES-150-M12 EN50155 Ethernet switch uses M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. In addition, the wide operating temperature range from -40~70°C can satisfy most of operating environments. The TES-150-M12 can be easily adopted in almost all kinds of applications and can provides the most rugged solutions for your network. Therefore, the switch is one of the most reliable choices for rolling stock Ethernet applications.

Practical Operation

TES-150-M12 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 -40~70°C makes TES-150-M12 reliably in any kinds of transporter applications.



Dimensions



Specifications

ORing Switch Model	TES-150-M12
Physical Ports	
10/100 Base-T(X) Ports in M12 Auto MDI/MDIX	5 x M12 connector (D-coding)
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3x for Flow control
Processing	Store-and-Forward
LED Indicators	
Power Indicator	Green : Power LED x 1
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for duplex indicator
Power	
Input Power	12 ~ 48 VDC voltage power input in M12 connector (A-coding)
Power Consumption (Typ.)	3 Watts
Overload Current Protection	Present
Reverse Polarity Protection	Present
Physical Characteristics	
Enclosure	IP-40
Dimensions (W x D x H)	88.9 (W) x 40 (D) x 178.2 (H)mm(3.5 x 1.57 x 7 inch)
Weight (g)	360 g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°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

TES-1 **A** **B** -M12

Code Definition	10/100Base-T(X) Port Number	Additional Port Number
Option	- 5 : 5 ports	- 0 : 0 port

Available Model	Model Name	Description
	TES-150-M12	EN50155 5-port unmanaged Ethernet switch with 5x10/100Base-T(X), M12 connector
Packing List <ul style="list-style-type: none">• TES-150-M12• Quick Installation Guide		Optional Accessories (Can be purchased separately) <ul style="list-style-type: none">• DR-45 series : 45 Watts DIN-Rail power supply• DR-75 series : 75 Watts DIN-Rail power supply• DR-120 series : 120 Watts DIN-Rail power supply• SDR-240-48, 240W DIN-Rail power supply• SDR-480-48, 480W DIN-Rail power supply• M12C series cables with M12 connectors