

ES105P Series

5-port EN50155 POE Ethernet Switches



- ▶ Supports 4 x 10/100 Base-T(X) with 802.3at P.S.E. PoE ports
- ▶ Support auto-negotiation and auto-MDI/MDI-X
- ▶ 4 port P.S.E. fully compliant with IEEE802.3at standard, provide up to 30 Watts per port
- ▶ Support store and forward transmission
- ▶ Support flow control
- ▶ Ultra-rugged enclosure M12 connector for toughest industrial usages
- ▶ Wall mounting enabled

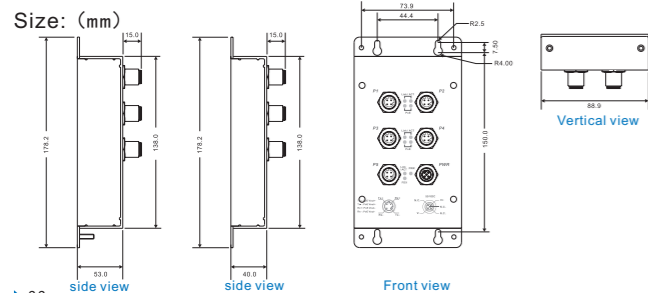


Overview:

The ES105P series Ethernet switches are designed for industrial applications, such as rolling stock, vehicle, and railway applications. It has 4x10/100BaseT(X) P.S.E. ports and 1x10/100/1000BaseT(X) port which is compliant with EN50155 requirement. It is specifically designed for the toughest industrial environments.

The ES105P series EN50155 Ethernet switch use M12 connectors to ensure tight, robust connections, and guarantee reliable operation against environmental disturbances, such as vibration and shock. It also support Power over Ethernet (4 P.S.E. (Power Sourcing Equipment) port to provide power in a PoE setup), 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. The wide operating temperature range from -40 to 70°C can satisfy most operating environment.

Dimensions:



Order information:

Model No	Description		Watt per port / Total watt
	10/100/BaseT(X)	10/100/1000 BaseT(X)	
WT-ES-1010 4_G-AF	4	1	15.4W/60W
WT-ES-1010 4_G-AT	4	1	25.5W/120W

Specifications:

Switch Properties	MAC Table size: 8K Packet Buffer Size: 1 Mbit Jumbo Frame Size: 9.6 KB Processing Type: Store and Forward Flow Control: IEEE 802.3x flow control, back pressure flow control
Interface	Rj45 ports: 10/100/1000 Base-T(X) Port in M12 D-coding Auto MDI/MDIX RJ45 ports: 10/100 Base-T(X) with P.S.E. Ports in M12 D-coding Auto MDI/MDIX LED Indicators: PWR,L/A,SPD, PoE
Power Requirement	Input : 48 VDC (46 ~ 50 V), redundat dual inputsInput Current: 3 A @ 48 VDC Connection: M12 socket (A-coding), single power input Overload Current Protection: Present Reverse Polarity Protection: Present
Physical Characteristics	Housing: Aluminum , IP40 protection Dimension: 89 x 53 x 178 mm (3.5 x 2.1 x 7 inch) Weight: 450g Installation: Field-style mounting, DIN-Rail mounting (with optional kit)
Environmental Limits	Operating Temperature: -40 ~ 85 °C (- 40 ~ 185 °F) Storage Temperature: -40 ~ 85 °C (- 40 ~ 185 °F) Ambient Relative Humidity: 5 ~ 95% (non-condensing)
Standards	E M I : FCC Part 15, CISPR (EN55022) class A, EN50155 (EN50121-3-2, EN55011, EN50121-4) EMS: EN 61000-6-2 (Industrial), EN 61000-4-2 (ESD) Level 4, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 4, EN 61000-4-5 (Surge) Level 4, EN 61000-4-6 (CS) Level 3, EN 61000-4-8, EN61000-4-9, EN61000-4-11,IEEE 1613 Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6 MTBF (mean time between failures) : 305,000 hrs EEE 802.3af / IEEE 802.3at for PoE IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseTX and 100BaseFX IEEE 802.3ab for 1000BaseT (X) IEEE 802.3x for Flow Control
Warranty	5 years