

T(P)ES-0216T

16 FE + 2 GE (PoE) M12 Unmanaged Ethernet Switch



OVERVIEW

Lantech T(P)ES-0216T is an unmanaged Ethernet switch featuring 16 10/100 Base-TX ports and 2 Gigabit copper ports with M12 connectors. Designed with an IP54-rated enclosure, it provides reliable protection against dust and water, meeting the stringent reliability requirements of industrial rolling stock applications.

Redundant dual 24VI/24TVI input with max PoE budget; inrush current prevention and polarity reverse protection

T(P)ES-0216T supports dual power inputs with voltage ranges of 14–36VDC for the 24VI model and 14–56VDC for the 24TVI model. Featuring galvanic isolation between input power, PoE, and all Ethernet ports, the PoE variant delivers up to 120W from internal power. Its redundant power input design includes inrush current prevention and polarity reversal protection to ensure stable and reliable operation.

Sleep Mode & efficient PoE timer under Ignition-Off State

Compliant with ITxPT standards, the -IGN model features a 60-minute standby mode after ignition-off, maintaining network operation before entering sleep mode(0.048W)—preventing unnecessary reboots when power is restored.

The PoE ignition model also supports a configurable PoE timer, with a default delay of 10 minutes after ignition-off.

E-marking* certificate, ITxPT*; ISO 7637-2 compliant and extended working temperature; ISO

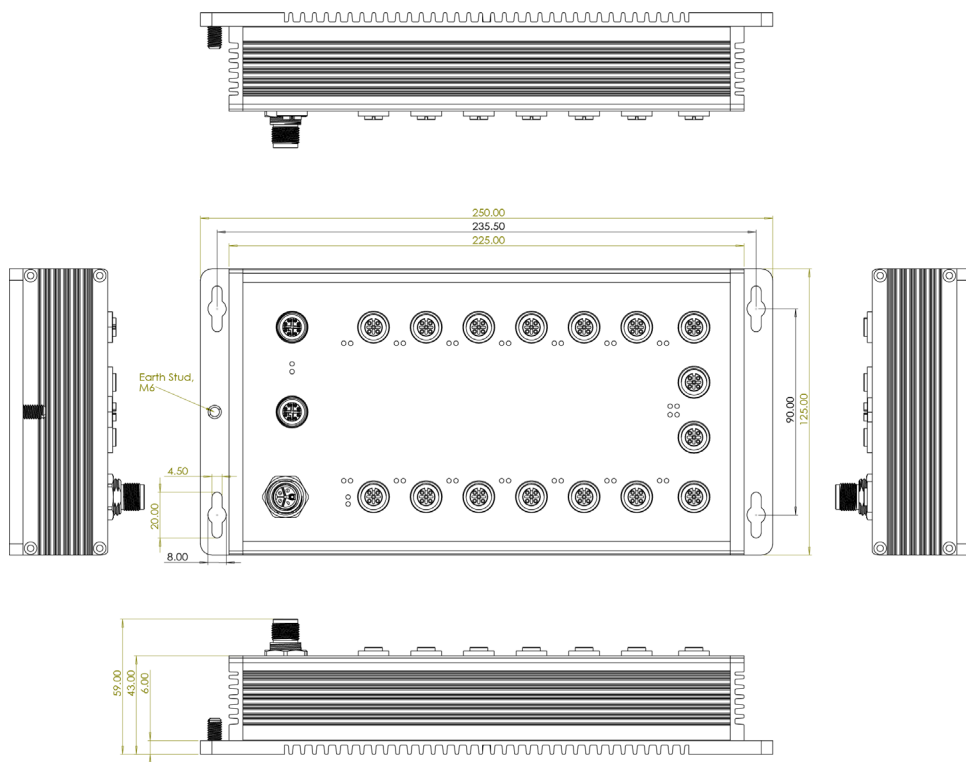
16750-2 P5A compliant

T(P)ES-0216T has passed rigorous industrial EMI, safety, and mechanical tests, including free-fall, shock, and vibration, ensuring reliable operation in harsh environments. The switch complies with ITxPT* public transport standards and ISO 7637-2, providing protection against high-voltage surges commonly encountered during vehicle crank starts.

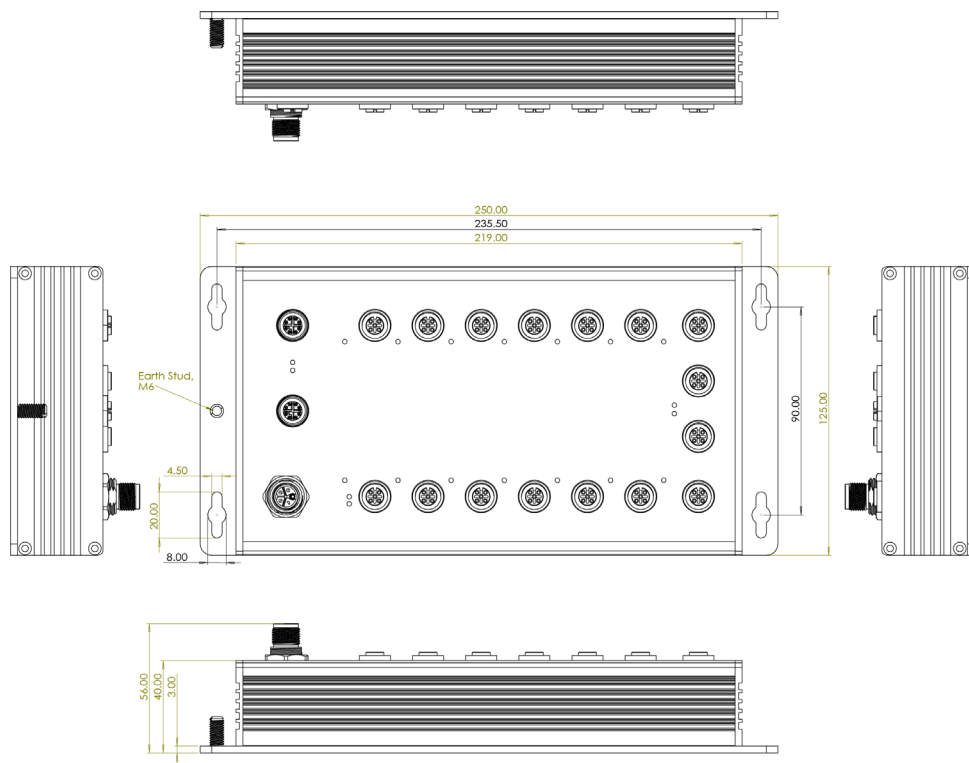
T(P)ES-0216T supports an extended operating temperature range of -40°C to 75°C (-IGN-E; -24TVI model). E-marking* certification makes it ideal for buses, carriages, and other vehicle applications, as well as industrial sites with 12V or 24V power where IP surveillance or VoIP connectivity is required. It also meets ISO 16750-2 P5A to resist motor pulse voltages, effectively minimizing the impact of high-frequency pulse voltages commonly generated by motor applications.

DIMENSIONS (unit=mm)

PoE model



Non-PoE model



SPECIFICATIONS

Hardware Specification		IGN model	
IEEE Standard	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-T Ethernet IEEE802.3ab 1000Base-T Ethernet IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet (For PoE Model)		
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	LED	Per unit: Power 1 (Green), Power 2 (Green), Ethernet: Link/Activity (Green) PoE: (Green)
Mac Address	8K MAC address table	PoE pin assignment	M12 port # 1~ # 16 support IEEE 802.3at/af End-point. Per port provides up to 30W
Connector	10/100TX: 16 x M12, 4-pole D-coded connector, Female with auto MDI/MDI-X function 1G/2.5G: 2 x M12, 8-pole X-coded connector, Female with auto MDI/MDI-X function Power connector: 1 x M12, 5-pole K coded, Male Non-IGN model	Power Supply	Dual input 14~36VDC (24VI model) 14~56VDC (24TVI model)
		Power Consumption	8W without PoE
		Power Budget	Total 120W @ 24VDC
		Operating Humidity	5% to 95% (Non-condensing)

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