

TPES-0008TD

8 FE PoE M12 Unmanaged Ethernet Switch























OVERVIEW

Lantech TPES-0008TD is a 8 10/100 Base-TX (with 8 ports 802.3at/af PoE ports- PoE model) with M12- Push-Pull connectors unmanaged Ethernet switch with IP67/IP54 rated protection which meets the high-reliability requirements demanded by industrial rolling stock applications. EN50155, ITxPT* and Emarking* certificates ensure the design to be met with world-class criteria.

Embedded Inner-lock push-pull connectors ensure fast installation and connection reliability

The built-in inner-lock push-pull connectors give the switch small-footprint design and for space-saving cabling installation. They ensure quick, tool-free installation with a simple push. Most importantly, their secure locking mechanism provides unwavering reliability, preventing accidental disconnections crucial for network uptime.

Redundant dual 24VI/24TVI input with inrush current prevention and EN50155 verification with high ESD and polarity reverse protection

The TPES-0008TD 24VI model accepts 9~36VDC dual power inputs (24VI model) and 16.8~56VDC dual power inputs (24TVI model) with (PoE) & Ethernet galvanic isolation and PoE model can feed 54V output for PoE feeding with 80W budget. The redundant power input design prevents inrush current and safeguards against polarity reversal.

TPES-0008TD supports up to 8 PoE at/af ports and PoE galvanic isolation PoE model

TPES-0008TD compliance with 802.3af/at standard, the PoE model is able to feed each PoE port up to 30 Watt at each PoE port for various IP PD devices.

PoE galvanic isolation up to 1.5KVDC to provide power input to PoE Ethernet ports insulation prevents cabling and grounding incidents from damaging the Ethernet switch itself.

E-marking* certificate; ISO 16750-2 compliant

The TPES-0008TD is designed to meet with critical network environment with IP54 enclosure and M12 connectors for protection against dust and water. It has passed harsh environmental testing to comply with Industrial EMI and Safety standards as well as stability testing such as Free fall, Shock, and vibration. It also meets the requirements of ISO 16750-2 P5A (24V system DC 174V/8 Ω /350ms), reducing the impact of high-frequency pulse voltage that could



be incurred by motor applications.

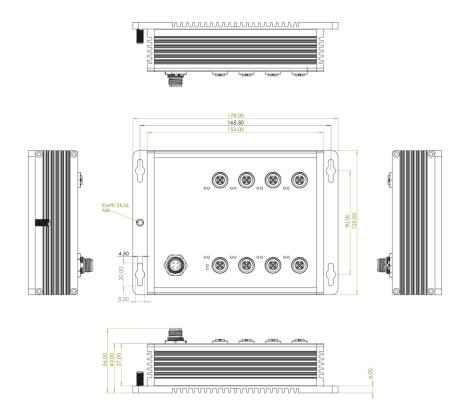
Optional Sleep Mode & efficient PoE timer under Ignition-Off State

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.

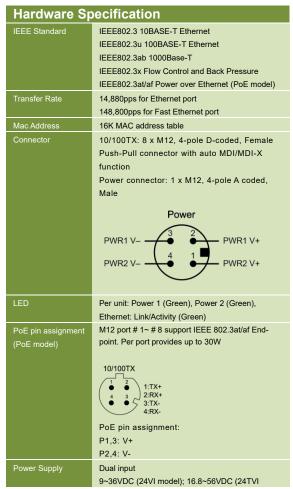
DIMENSIONS (unit=mm)

PoE models





SPECIFICATIONS



	model)
Power	5.06W (w/o PoE load)
Consumption	
Power Budget	80W @ 24VDC and above
Operating Humidity	5% to 95% (Non-condensing)
Operating	-40°C ~ 70°C (-40°F ~ 167°F)
Temperature	
Storage	-40°C ~ 85°C (-40°F ~ 185°F)
Temperature	
Case Dimension	Aluminum case, IP67/IP54 rated
	178mm(W)x125mm(H)x53mm(D)
Weight	850g
Installation	Wall Mount Design
EMC	FCC Part 15, Subpart B ICES-003 Issue 7,
	EN 55035:2017/A11:2020,
	EN 55032:2015/A11:2020,
	IEC 61000-4-2:2008,
	IEC 61000-4-3:2020,
	IEC 61000-4-4:2012,
	IEC 61000-4-5:2014+AMD1:2017 CSV,
	IEC 61000-4-6:2023,
	IEC 61000-4-8:2009,
	IEC 61000-6-2:2016,
	IEC 61000-6-4:2018,
	EN IEC 61000-6-2:2019,
	EN IEC 61000-6-4:2019,
	BS EN 55035:2017+A11:2020,
	BS EN 55032:2015+A11:2020
Verification	EN 50155: 2021
	EN 50121-4: 2016/ A1: 2019
	EN 50121-3-2: 2016/ A1: 2019 EN45545-1, EN 45545-2 Fire & Smoke
Vehicle Certificate	
verlicie Certificate	E24 marking* (UN ECE R10) ITxPT labeled*
MTBF	
WITEF	TBC

*Future release **Optional

ORDERING INFORMATION

All model packages include M12 caps and wall mount brackets. All standard models are non-coating; optional coating models are available with -C model name

- TPES-0008TD-67-24VI-E-PP......P/N: 8352-176
 - 8 10/100TX PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP67
- TPES-0008TD-67-24VI-IGN-E-PP......P/N: 8352-17601

8 10/100TX PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP67 rated w/ignition

- TPES-0008TD-67-24TVI-PP.......P/N: 8352-17602
 - 8 10/100TX PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 16.8~56VDC dual input; -40°C to 70°C; IP67 rated
- TPES-0008TD-54-24VI-E-PP......P/N: 8351-17601

8 10/100TX PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP54

- TPES-0008TD-54-24VI-IGN-E-PP......P/N: 8351-17602
 - $8\ 10/100TX\ PoE\ Unmanaged\ Ethernet\ Switch\ w/PoE\ \&\ Ethernet\ galvanic\ isolation;\ 9~36VDC\ dual\ input;\ -40°C\ to\ 70°C;\ IP54$ rated w/ignition
- TPES-0008TD-54-24TVI-PP.......P/N: 8351-17603
 - 8 10/100TX PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 16.8~56VDC dual input; -40°C to 70°C; IP54 rated





OPTIONAL ACCESSORIES

M12 Connector & Cable

Connector

■ ECON120005PF 5 pin M12 (Female) A-coded 180 degree crimp type connector for power supply ■ ECONM12-04A(F)-C-180 4 pin M12 (Female) A-coded 180 degree crimp type connector for power supply

ECONM12-04D(M)-C-180 4 pin M12 (Male) D-coded 180 degree crimp type connector for data

<u>Cable</u>

■ ECONM12-5P(F)70CM CABLE 5 pin M12 (Female) A-coded 90 degree cable for power supply, 70cm ECONM12-4P(F)1.5M CABLE 4 pin M12 (Female) A-coded 90 degree cable for power supply, 150cm ECAB124030MJS 4 pin M12 (Male) D-coded 180 degree RJ45 STP cable for data, 300cm

ECONM12-05A(F) to MCP 6P-5 pin M12 (Female) A-coded 180 degree to 6 pin MCP power cable, 20cm (For ignition models)

20CM CABLE

Lantech Communications Global Inc. www.lantechcom.tw info@lantechcom.tw

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In a continuing effort to improve and advance technology, product specifications are subject to change without notic