

T(P)GS-0008D

8 GE (PoE) Unmanaged Ethernet Switch

- IEEE802.3at/af up to 30W PoE output (PoE model)
- Dual power inputs 9~36V (24VI model) with galvanic isolation between input power, PoE and Ethernet
- Wide Operating Temperature from -40°C to 70°C
- Inrush current prevention; polarity reverse protection
- Efficient PoE timer when ignition off (PoE model; -IGN model)
- IP67/IP54 Aluminum housing for best heat dissipation and preventing moist ingress



OVERVIEW

Lantech T(P)GS-0008D is an 8 10/100/1000 Base-T (with 8 ports 802.3at/af PoE ports- PoE model) with M12-connectors unmanaged Ethernet switch with IP67/IP54 rated protection which meets the high-reliability requirements demanded by industrial rolling stock applications.

Redundant dual 24VI input with inrush current prevention and polarity reverse protection

The TGS-0008D 24VI model accepts 9~36VDC dual power inputs (24VI 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-0008D supports up to 8 PoE at/af ports and PoE galvanic isolation (PoE model)

TPES-0008D compliance with 802.3at/af 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.

Efficient PoE timer when ignition off

The TPGS-0008D ignition model supports efficient PoE configuration when the ignition is off. It supports PoE feeding OFF timer (10mins by default) and system 60mins by default at ignition off mode to prevent car battery drain-out. (- IGN model)

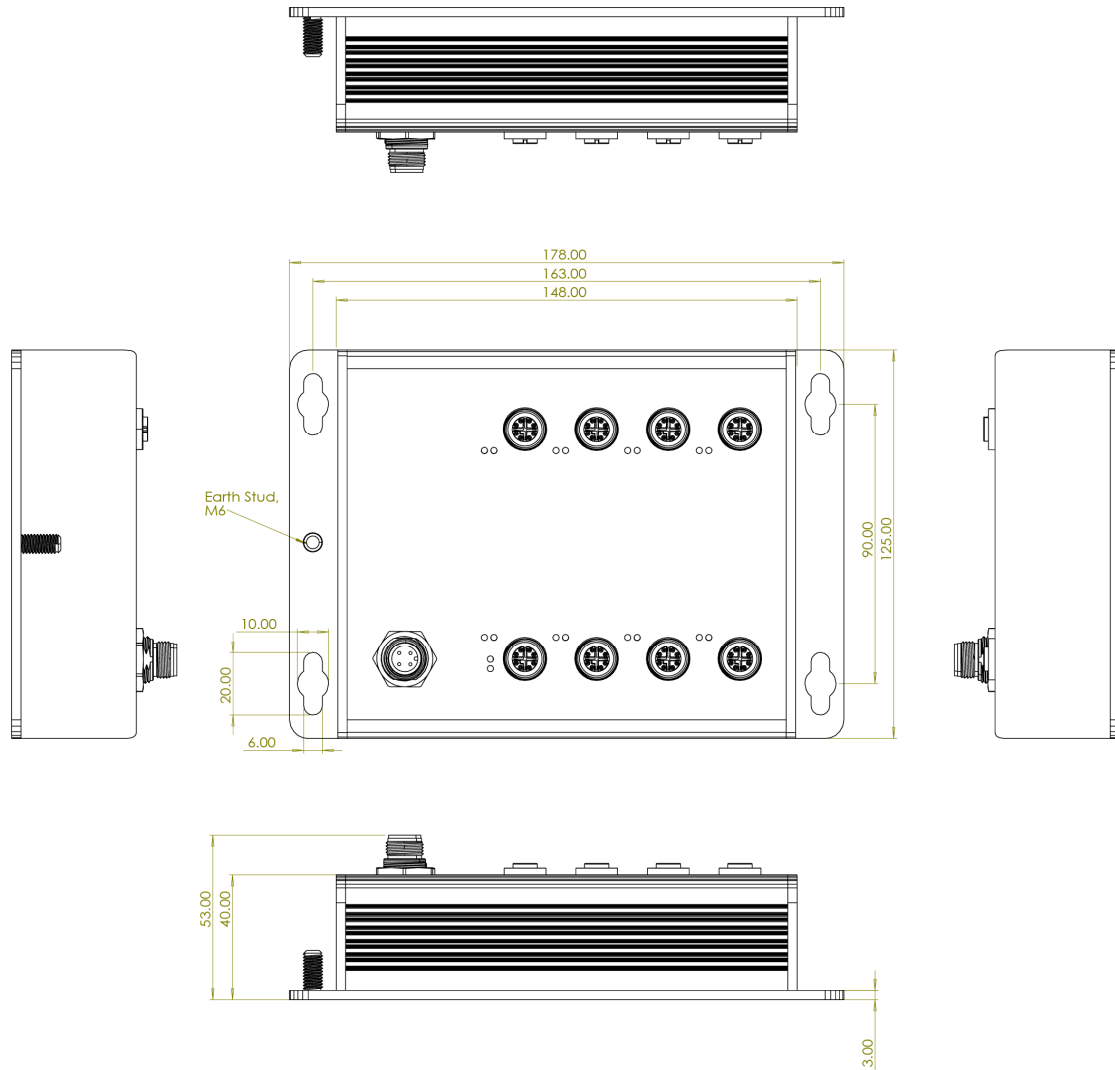
The TGS-0008D ignition model with a 60-minute countdown of standby mode to continue network operation and then into sleep mode to avoid the switch rebooting when the ignition is back. (-IGN model)

FEATURES & BENEFITS

- | | |
|---|---|
| ■ 8 10/100/1000T Unmanaged Ethernet Switch with M12 connectors and IP67/IP54 rated protection | ■ system 1.5KV |
| ■ Dual 9~36VDC input (24VI model) | ■ TPGS-0008D supports IEEE802.3at/af feeding power up to 30W per PoE port, provides a total PoE budget of |
| ■ Galvanic isolation from power input/Ethernet ports to | 80W |

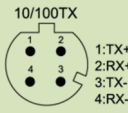
- Back-plane (Switching Fabric): 16 Gbps
- 16K MAC address table
- Wide Operating Temperature (-40°C ~70°C) available
- Wall mount design
- Inrush current prevention; polarity reverse protection
- Ignition model with a 60-minute countdown to standby mode (-IGN model); PoE off timer set to 10 minutes by default

DIMENSIONS (unit=mm)



SPECIFICATIONS

Hardware Specification		Male	
IEEE Standard	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-T Ethernet IEEE802.3ab 1000Base-T IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet (PoE model)		
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port		
Mac Address	16K MAC address table	LED	Per unit: Power 1 (Green), Power 2 (Green), Ethernet: Link/Activity (Green)
Connector	10/100/1000T: 8 x M12, 8-pole X-coded, Female with auto MDI/MDI-X function Power connector: 1 x M12, 4-pole A coded,	PoE pin assignment	M12 port # 1~ # 8 support IEEE 802.3at/af End-point. Per port provides up to 30W

(PoE model)	 <p>PoE pin assignment: P1,3: V+ P2,4: V-</p>
Power Supply	Dual input 9~36VDC (24VI model)
Power Consumption	5.06W (w/o PoE load)
Power Budget	Total 80W @ 24VDC and above
Operating Humidity	5% to 95% (Non-condensing)
Operating Temperature	-40°C ~ 70°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Case Dimension	Aluminum case, IP67/IP54 rated 178mm(W)x125mm(H)x53mm(D)

Weight	700g
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
MTBF	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.

- **TPGS-0008D-67-24VI-E.....P/N: 8351-15701**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP67 rated
- **TPGS-0008D-67-24VI.....P/N: 8351-15702**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -20°C to 60°C; IP67 rated
- **TPGS-0008D-67-24VI-E-IGN.....P/N: 8351-15703**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP67 rated w/ignition
- **TPGS-0008D-67-24VI-IGN.....P/N: 8351-15704**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -20°C to 60°C; IP67 rated w/ignition
- **TGS-0008D-67-24VI-E.....P/N: 8351-157**
8 10/100/1000T Unmanaged Ethernet Switch w/Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP67 rated
- **TGS-0008D-67-24VI.....P/N: 8351-1571**
8 10/100/1000T Unmanaged Ethernet Switch w/Ethernet galvanic isolation; 9~36VDC dual input; -20°C to 60°C; IP67 rated
- **TPGS-0008D-54-24VI-E.....P/N: 8351-15721**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP54 rated
- **TPGS-0008D-54-24VI.....P/N: 8351-15722**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -20°C to 60°C; IP54 rated
- **TPGS-0008D-54-24VI-E-IGN.....P/N: 8351-15723**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP54 rated w/ignition
- **TPGS-0008D-54-24VI-IGN.....P/N: 8351-15724**
8 10/100/1000T PoE Unmanaged Ethernet Switch w/PoE & Ethernet galvanic isolation; 9~36VDC dual input; -20°C to 60°C; IP54 rated w/ignition
- **TGS-0008D-54-24VI-E.....P/N: 8351-1572**
8 10/100/1000T Unmanaged Ethernet Switch w/Ethernet galvanic isolation; 9~36VDC dual input; -40°C to 70°C; IP54 rated
- **TGS-0008D-54-24VI.....P/N: 8351-1573**
8 10/100/1000T Unmanaged Ethernet Switch w/Ethernet galvanic isolation; 9~36VDC dual input; -20°C to 60°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
Cable	
■ 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-20CM CABLE	5 pin M12 (Female) A-coded 180 degree to 6 pin MCP power cable, 20cm (For ignition models)

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