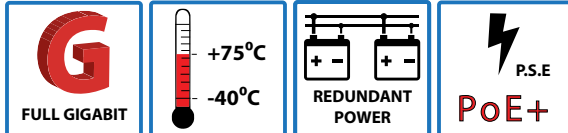


EN50155 COMPLIANT 8-PORT UNMANAGED GIGABIT PoE ETHERNET SWITCH WITH 8x10/100/1000BASE-T(X) P.S.E., M12 CONNECTORS



UNMANAGED ETHERNET SWITCH

FEATURES

- EN50155 compliant Ethernet switch for rolling stock application
- Provides 8x10/100/1000Base-T(X) PoE+ (P.S.E.) ports
- Supports IEEE 802.3at compliant PoE with maximum 30Watts per port
- Supports dual power inputs for power redundancy
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports store and forward transmission
- Supports flow control
- M12 connectors to guarantee reliable operation against environmental disturbances
- Rigid IP-40 housing design
- Wall mounting enabled

DESCRIPTION

The Meridian US8GT8POEH-M12 is an unmanaged PoE+ Ethernet switch designed for industrial applications, such as rolling stock, vehicle, and railway applications. This switch has 8x10/100/1000Base-T(X) P.S.E. ports and is designed specifically for the toughest environments and fully compliant with EN50155 requirements.

The US8GT8POEH-M12 also supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. Each US8GT8POEH-M12 switch has 8X10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports.

The US8GT8POEH-M12 Ethernet switch incorporates 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°C to 75°C can satisfy most operating environments. This switch is one of the most reliable choices for rolling stock and highly-managed PoE Ethernet application.

The US8GT8POEH-M12 can be used in connecting several PoE Ethernet devices like IP-Cameras or other Ethernet devices.

In addition, there are two different power inputs at terminal block to avoid interruption caused by the loss of primary power. When the primary DC power input fails, the backup power input will take over immediately to guarantee uninterrupted operation.

SPECIFICATIONS

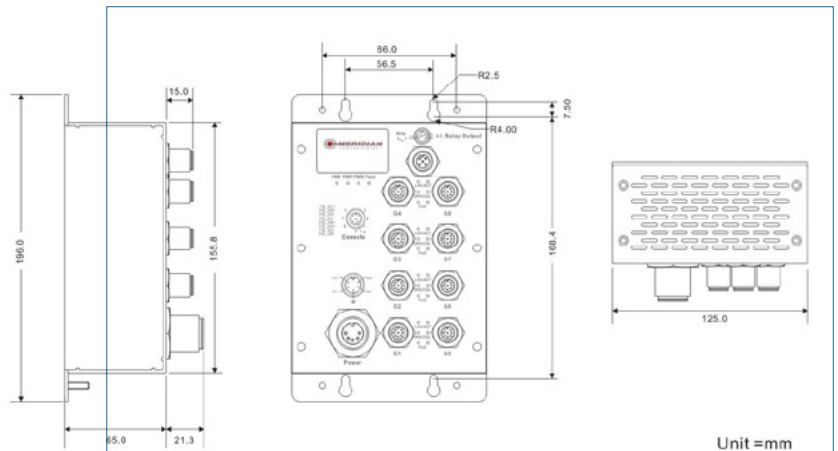
Physical Ports	
10/100/1000Base-T(X) Ports in M12 With P.S.E.	8 x M12 connector (8-pin A-coding)
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3at compliant PoE specification (Maximum 30Watts per port)
MAC Table	8K MAC Addresses
LED indicators	
Power indicator (PWR)	Green : Power LED x 3
Fault indicator	Amber : Indicate PWR1 or PWR2 failure
10/100/1000Base-T(X) M12 port indicator and PoE indicator	Top: Per port Link/Act indicator. Green for 1Gbps link, Amber for 10/100 Mbps link Middle: Amber for Duplex / Collision indicator Bottom: Blue for PoE Injected indicator
Fault indicators	
Relay	Relay output to carry capacity of 3A at 24VDC on M12 connector (5-pin A-coding)
Power	
Input Power	Dual DC inputs. 50~57VDC on 5-pin M23 connector
PoE Output Power	240 Watts

Power consumption (Typ.)	6 Watts (power consumption of P.S.E. is not included)
Overload current protection	Yes
Reverse polarity protection	No
Physical Characteristic	
Enclosure	IP-40
Dimension (W x D x H)	4.93 (W) x 2.56 (D) x 7.72 (H) inch 125 x 65 x 196 mm
Weight (g)	2.05 lb (930 g)
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°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
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6



10/100/1000Base-T(X) P.S.E. M12 port - Pinout

Pin Number	Description
#1	BI_DC+
#2	BI_DD+
#3	BI_DD-
#4	BI_DA- / PoE Vout+
#5	BI_DB+ / PoE Vout-
#6	BI_DA+ / PoE Vout+
#7	BI_DC-
#8	BI_DB- / PoE Vout-



Dimensions

Ordering Information		Packing List	
Description	US8GT8POEH-M12 - EN50155 compliant 8-port unmanaged Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E., M12 connector	US8GT8POEH-M12	1
Optional Accessories		Quick Installation Guide	1
Power Supply	PSH48DC480 - 48VDC, 480Watt		
Cables	M12 cables		