**MERIDIAN** TECHNOLOGIES

## 8-PORT UNMANAGED GIGABIT PoE+ ETHERNET SWITCH WITH 8x10/100/1000BASE-T(X) P.S.E.

FC  CE

**REDUNDANT POWER**

**G FULL GIGABIT**
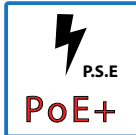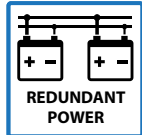
**P.S.E PoE+**

## FEATURES

- Provide 8x10/100/1000Base-T(X) PoE+ (P.S.E.) ports
- Supports P.S.E. based on IEEE 802.3af/at standard
- Up to 30W at 48V DC power output on each PoE port
- Support auto-negotiation
- Support store and forward transmission
- Redundant power inputs with terminal blocks
- Rugged IP-40 housing design
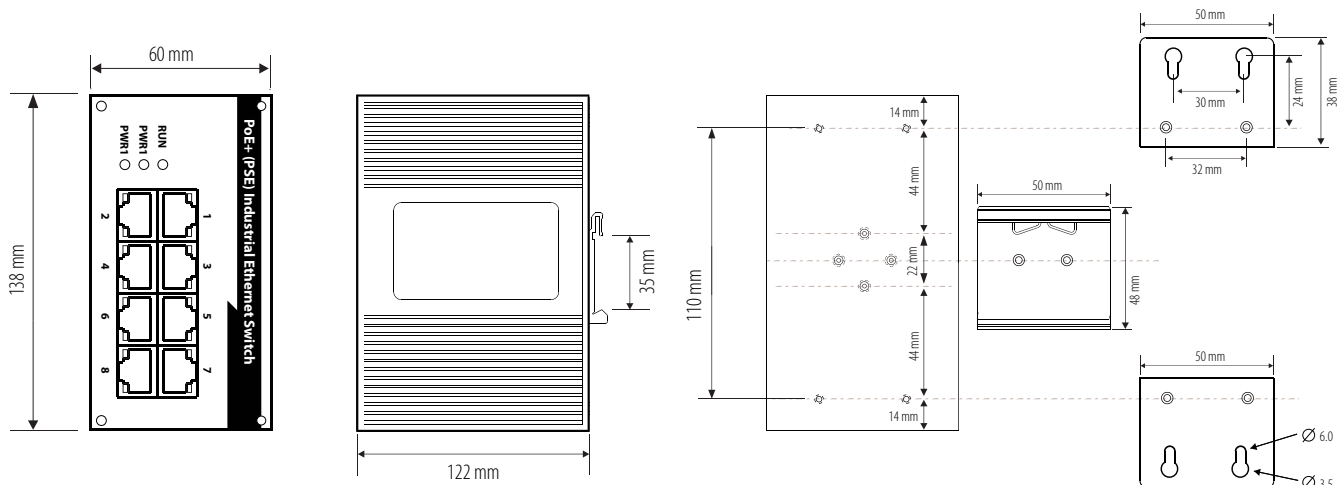- DIN-Rail or wall mounting



Figure 1.

## DESCRIPTION

Meridian's US8GT8POEH is an unmanaged, 8-port PoE Ethernet switch with P.S.E. function. The US8GT8POEH 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. The switch has eight 10/100/1000Base-T(X) P.S.E. (Power Sourcing Equipment) ports. Its rugged IP-40 housing design and wide operating temperature range (-40 to +85°C) enables it to operate in even the extreme environments. Therefore, the switch is one of the most reliable choices for PoE Ethernet applications.

## TYPICAL OPERATION

As illustrated on the drawing (Figure 1), the US8GT8POEH can be used to connect a number of PoE Ethernet devices (e.g., IP-Cameras, access panels, or other Ethernet devices requiring remote power. This switch also offers redundant power inputs for increased system reliability.

## SPECIFICATIONS

| Physical Ports | |
|---|---|
| 10/100/1000Base-TX Ports in RJ45 With P.S.E. | **8** |

| Technology | |
|---|---|
| Ethernet Standards | IEEE 802.3 for 10Base-T |
| | IEEE 802.3u for 100Base-TX |
| | IEEE 802.3ab for 1000Base-X |
| | IEEE 802.3x for Flow control |
| | IEEE 802.3af/at PoE specification (up to 30 Watts per port for P.S.E.) |
| MAC Table | 8K |
| Processing | Store-and-Forward |
| Packet Buffer Size | 1M bit |
| Exchange Properties | 148800pps (100M) |

| LED indicators | |
|---|---|
| Power Indicators | Green On—Power on<br>Green Off—Power off |
| Run indicator | Green On—The system starts up successfully<br>Green Off — The system doesn't start up successfully |
| 10/100/1000Base-T(X) RJ45 Port Indicator | Yellow for port speed:<br>Yellow On —The port works at 1000Mbps.<br>Yellow Off—The port works at 10/100Mbps.<br>Green for port Link/Act:<br>Green On and Blinking—Port Link up, data is transmitted.<br>Green On – No Blinking –Port Link up<br>Green Off - Port Link down |

| Fault Contact | |
|---|---|
| Relay | Relay output to carry capacity of 1A at 24VDC |

| Power | |
|---|---|
| Redundant Input power | Dual DC inputs. 48 VDC (48 - 60 VDC) on 6-pin terminal block |
| Input Current | <0.5A @48VDC |
| Power consumption (Typ.) | 8 Watts (power device not included) |
| Overload current protection | Yes |
| Reverse polarity protection | Yes |

| Physical Characteristic | |
|---|---|
| Enclosure | Aluminum Alloy material, IP-40 |
| Dimension (W x D x H) | 42 (W) x 112 (D) x 138(H) mm (1.65 x 4.4 x 5.44 inch) |
| Weight (g) | 710 g (1.56 lb) |

| Environmental | |
|---|---|
| Storage Temperature | -40 to 85℃ (-40 to 185℉) |
| Operating Temperature | -40 to 85℃ (-40 to 185℉) |
| Operating Humidity | 5% to 95% Non-condensing |

| Regulatory Approvals | |
|---|---|
| EMI | FCC Part 15 Subpart B Class A,<br>CISPR (EN55022) class A |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8 |
| Shock | IEC60068-2-27 |
| Free Fall | IEC60068-2-32 |
| Vibration | IEC60068-2-6 |
| Safety | EN60950-1 |
| Industry | IEC61000-6-2 |
| Traffic | NEMA TS-2 |

| Ordering Information | | |
|---|---|---|
| Products | Part Number | Description |
| | US8GT8POEH | 8 port 10/100/1000TX (RJ45) unmanaged Ethernet PoE+ switch |
| Recommended Power supplies | PSH48DC240 | 48VDC @ 5 Amp Amps ( 240 Watts) |

| Packing List | |
|---|---|
| US8GT8POEH | 1 |
| Wall-Mount Kit | 1 |
| Quick Installation Guide | 1 |
| Din-Rail Kit (attached) | 1 |