MERIDIAN TECHNOLOGIES

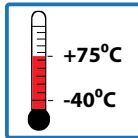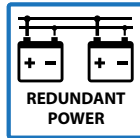**HARDENED 6-PORT SLIM UNMANAGED PoE GIGABIT ETHERNET SWITCH WITH 4 x 10/100/1000BASE-TX AND 2 x 1000BASE-X SFP PORTS**

FC CE

REDUNDANT POWER

+75°C -40°C

G FULL GIGABIT

P.S.E PoE
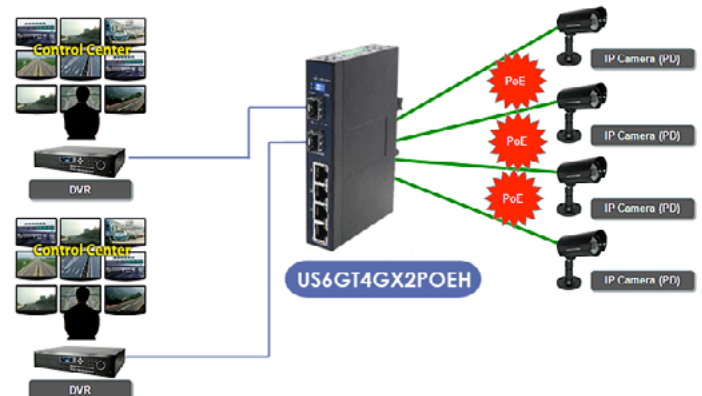
SLIM DESIGN

FEATURES

- Supports 4 x 10/100/1000Base-TX PoE (P.S.E.) ports and 2 x 1000Base-X SFP ports
- Supports two 100Base-FX and 1000Base-X optical SFP ports
- Support P.S.E. based on IEEE 802.3at standard up to 30 Watts per port
- Supports Jumbo Frame up to 9 Kbytes
- Supports auto-negotiation and auto-MDI/MDI-X
- Redundant power inputs with terminal blocks
- Supports store and forward transmission
- Rugged IP-30 slim type housing design
- DIN-Rail and wall mounting enabled
- Wide operating temperature range (-40 to +75°C)

DESCRIPTION

Meridian's US6GT4GX2POEH is an unmanaged PoE Ethernet switch with P.S.E. function. This unit 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. This switch has 4 x 10/100/1000Base-TX and 2 x 1000Base-X SFP ports. The SFP port optical network speed can be set by the DIP-Switch. The US6GT4GX2POEH switch supports redundant input power and is housed a rugged IP-30 housing. DIP switches are also provided for enabling the relay output alarm. The wide operating temperature range of -40 to 75°C can easily satisfy most the most demanding environments.

TYPICAL OPERATION

US6GT4GX2POEH can be used in connecting several PoE P.D. Ethernet devices like IP-Camera or other Ethernet devices. In addition, there are two different power inputs at terminal blocks to avoid interruption caused by power down. When the primary DC power input fails, the backup power input will take over immediately to guarantee a non-stop operation.

SPECIFICATIONS

Physical Ports

10/100/1000 Base-TX Ports in RJ45 with P.S.E. Auto MDI/MDIX	**4**
1000Base-X SFP Ports	**2**

Technology

Ethernet Standards	IEEE 802.3 for 10Base-T,
	IEEE 802.3u for 100Base-TX
	IEEE 802.3z for 1000Base-X
	IEEE 802.3ab for 1000Base-TX
	IEEE 802.3x for Flow control
	IEEE 802.3 at PoE specification (up to 30 Watts per port for P.S.E.)
MAC Table	1024 MAC addresses
Processing	Store-and-Forward
Jumbo Frame	9 Kbytes

LED Indicators

Power Indicator	Green : Power LED x 2
Fault Indicator	Amber : Indicate PWR1 or PWR2 failure
10/100/1000Base-Tx RJ45 Port indicator and PoE indicator (P1 ~ P4)	Green for port Link / Act Green for power injected
1000Base-X SFP Port Indicator	Green for port Link/Act

SFP Speed DIP-Switch

DIP-Switch 1/2	DIP-Switch 1 (ON) and DIP-Switch 2 (ON) : SFP speed setting to 100Mbps DIP-Switch 1 (OFF) and DIP-Switch 2 (OFF) : SFP speed setting to 1000Mbps

Relay Output DIP-Switch

DIP-Switch 1	Power-1 failed warning : (ON) enable, (OFF) disable
DIP-Switch 2	Power-2 failed warning : (ON) enable, (OFF) disable

10/100Base-T(X) P.S.E. RJ-45 Port

PIN #1	TD+ with PoE Power input +
PIN #2	TD- with PoE Power input +
PIN #3	RD+ with PoE Power input -
PIN #6	RD+ with PoE Power input -

1000Base-T P.S.E. RJ-45 Port

PIN #1	BI_DA+ with PoE Power input +
PIN #2	BI_DA- with PoE Power input +
PIN #3	BI_DB+ with PoE Power input -
PIN #4	BI_DC+
PIN #5	BI_DC-
PIN #6	BI_DB- with PoE Power input -
PIN #7	BI_DD+
PIN #8	BI_DD-

Fault Contact

Relay	Relay output to carry capacity of 1A at 24VDC

Power

Redundant Input Power	Dual DC inputs. 48~57VDC on 6-pin terminal block
Power Consumption (Typ.)	6.3 Watts (power device not included)
Overload Current Protection	Yes
Reverse Polarity Protection	No

Physical Characteristic

Enclosure	IP-30
Dimension (W x D x H)	26.1 (W) x 94.9 (D) x 144.3(H) mm (1.03 x 3.74 x 5.68 inch)
Weight (g)	410g (0.93 lb)
MTBF	910925 hours

Environmental

Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 168°F)
Operating Humidity	5% to 95% Non-condensing

Regulatory approvals

EMI	FCC Part 15, 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, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1

Ordering Information

Products	Part Number	Description
	US6GT4GX2POEH	**Hardened 6-port slim unmanaged PoE Gigabit Ethernet switch with 4 x 10/100/1000Base-TX and 2 x 1000Base-X SFP ports**
Recommended Power supplies	PSH48DC120 PSH48DC240	**48VDC @ 2,5 Amps (120 Watts) 48VDC @ 5 Amp Amps (240 Watts)**

Packing List

US6GT4GX2POEH	1
Wall-Mount Kit	1
Quick Installation Guide	1
Din-Rail Kit (attached)	1

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