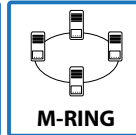
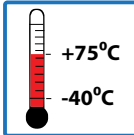
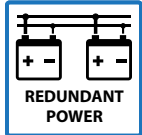


HARDENED 12-PORT MANAGED GIGABIT ETHERNET SWITCH WITH 8x10/100/1000BASE-T(X) PoE+ RJ45 PORTS AND 4x100/1000BASE-X SFP PORTS



MANAGED ETHERNET SWITCH

FEATURES

- Supports Eight 10/100/1000Base-T(X) ports and Four SFP ports for 100/1000Base-X SFP operation
- Support M-Ring (recovery time < 30ms over 250 units of connection), MSTP/ RSTP/STP (IEEE 802.1s/w/D) for Ethernet Redundancy
- Eight ports of 10/100/1000Base-T(X) P.S.E. fully compliant with IEEE802.3at standard, provide up to 30 Watts per port
- Open-Ring supports other vendor's ring technology in open architecture
- Support PoE scheduled configuration and PoE auto-ping check function
- Supports PTP Client (Precision Time Protocol) clock synchronization
- Support IPV6 new internet protocol version
- Support Modbus TCP protocol
- Support IEEE 802.3az Energy-Efficient Ethernet technology
- Provided HTTPS/SSH protocol to enhance network security
- Support SMTP client
- Support IP-based bandwidth management
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for ease of bandwidth management
- Support SNMP v1/v2c/v3, RMON and 802.1Q VLAN Network Management RMON for traffic monitoring
- Supports 9.6K Bytes Jumbo Frame
- Support LLDP (Link Layer Discovery Protocol)
- Port lock to prevent access from unauthorized MAC address
- Optional Windows utility (SpectraVision v3.0) supports centralized management and is configurable by Web-based ,Telnet, Console(CLI)
- Rigid IP-30 housing design
- DIN-Rail or wall mounting

DESCRIPTION

The Meridian's MS12GT8GX4POEH is a managed redundant ring PoE Ethernet switch with 8x10/100/1000Base-T(X) PoE+ ports and 4x100/1000Base-X SFP ports.

With complete support of Ethernet redundancy protocol, M-Ring (recovery time < 30ms over 250 units), Open-Ring, M-RSTP and MSTP/RSTP/STP (IEEE 802.1s/w/D) these switches will protect your mission-critical applications from network interruptions with its fast recovery technology.

The MS12GT8GX4POEH 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.

MS12GT8GX4POEH can be managed by the Web-based interface, Telnet and console (CLI) configuration or by optional Windows based SpectraVISION utility. The redundant DC power inputs guarantee non-stop operation. The backup power input will take over immediately when the primary DC power input fails. MS12GT8GX4POEH provides relay outputs to indicate alarms or failure of operation.

This switch is one of the most reliable choices for highly-managed Fiber Ethernet applications.

SPECIFICATIONS

Physical Ports

10/100/1000Base-T(X) with P.S.E. Ports in RJ45 Auto MDI/MDIX	8
100/1000Base-X with SFP port	4
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. 115200bps, 8, N, 1

Technology

Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1x for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol) IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
MAC Table	8192 MAC addresses
Priority Queues	8
Processing	Store-and-Forward
Switch Properties	Switching latency: 7 μ s Switching bandwidth: 24Gbps Max. Number of Available VLANs: 256 IGMP multicast groups: 128 for each VLAN Port rate limiting: User Define
Security Features	Device Binding security feature Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.1Q) to segregate and secure network traffic Radius centralized password management SNMPv3 encrypted authentication and access security Https / SSH enhance network security
Jumbo Frame	Up to 9.6K Bytes
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (M-Ring) with recovery time less than 30ms over 250 units TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging IGMP Snooping IP-based bandwidth management Application-based QoS management DOS/DDOS auto prevention Port configuration, status, statistics, monitoring, security DHCP Server/Client/Relay SMTP Client Modbus TCP
Network Redundancy	M-Ring, Open-Ring, M-RSTP, STP, RSTP, MSTP

LED indicators

Power Indicator	Green : Power LED x 2
R.M. Indicator	Green : Indicate system operated in M-Ring Master mode
Ring Indicator	Green : Indicate system operated in M-Ring mode Green Blinking : Indicates that the Ring is broken
Fault Indicator	Amber : Indicate unexpected event occurred
10/100/1000Base-T(X) RJ45 port indicator	Dual color LED : Green for 1000Mbps Link/Act indicator Amber for 10/100Mbps Link/Act indicator
100/1000Base-X SFP Port Indicator	Green for port Link/Act
PoE Indicator	Green : PoE enabled LED x 8

Fault contact

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

Redundant Input Power	Dual DC inputs. 50~57VDC on 6-pin terminal block
Power Consumption (Typ.)	13.2 Watts
Overload Current Protection	Yes
Reverse polarity protection	No

Physical Characteristic

Enclosure	IP-30
Dimension (W x D x H)	96.4 (W) x 105.5 (D) x 154 (H) mm (3.8 x 4.15 x 6.06 inches)
Weight (g)	1260 g (2.78 lb)

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
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

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-

Ordering Information

Description	MS12GT8GX4POEH - Hardened 12-port Managed Gigabit Ethernet Switch with 8x10/100/1000Base-T(X) PoE+ RJ45 ports and 4x100/1000Base-X SFP ports
SFP Options	Refer to Optical SFP Data Sheet for complete part numbers and ordering information
Power supplies	PSH48DC240 - 48VDC @ 5 Amp Amps (240 Watts) PSH48DC480 - 48VDC @ 10 Amp Amps (480 Watts)
SpectraVISION	\$500 - Powerful Network Management Windows Utility Suit, 500 IP devices

Packing List

MS12GT8GX4POEH	1
Wall-Mount Kit	1
Quick Installation Guide	1
Din-Rail Kit (attached)	1
Console Cable	1