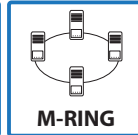
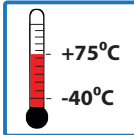
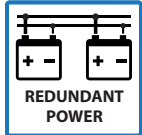


HARDENED 8-PORT MANAGED GIGABIT ETHERNET SWITCH WITH 4 PORT 10/100/1000TX (RJ45) + 4 PORT 10/(100/1000 SFP)/RJ45 COMBO



MANAGED ETHERNET SWITCH

FC CE

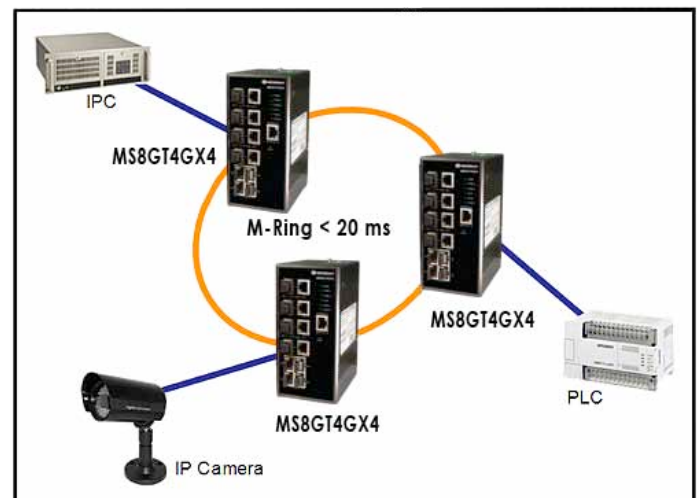


FEATURES

- Supports 8 Gigabit ports and 4 combo ports for 10/1000 SFP operation
- World's fastest Redundant Ethernet Ring: M-Ring (recovery time < 20ms over 250 units of connectivity)
- Open-Ring supports other vendor's ring technology in open architecture
- M-RSTP supports applications with complex topology
- STP/RSTP/MSTP supported
- Supports PTP Client (Precision Time Protocol) clock synchronization
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring
- Supports DDM (Digital Diagnostic Monitoring) function
- Support LLDP (Link Layer Discovery Protocol)
- Event notification through Syslog, Email, SNMP trap, and Relay Output
- Port lock to prevent access from unauthorized MAC address
- Optional Windows utility (SpectraVISION) 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 MS8GT4GX4 is a managed redundant ring Ethernet switch with 4x10/100/1000Base-TX and 4xGigabit Combo ports. With complete support of Ethernet redundancy protocol, M-Ring (recovery time < 20ms 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. MS8GT4GX4 can be managed by a powerful windows utility — SpectraVISION. The MS8GT4GX4 switch supports the new DDM (Digital Diagnostic Monitoring) function, which can monitor the status of electrical voltage, current and temperature in real time. The redundant DC power inputs guarantee non-stop operation. The backup power input will take over immediately when the primary DC power input fails. MS8GT4GX4 provides relay outputs that can be set up to indicate events with urgency to notify or warn the technicians, allowing them to respond more quickly to the events. This switch is one of the most sought-after choices for highly-managed Fiber Ethernet applications.



SPECIFICATIONS

Physical Ports

10/100 Base-TX Ports in RJ45 Auto MDI/MDIX with P.S.E.	4
Gigabit Combo Ports with 10/100/1000 Base-TX and 100/1000 Base-X SFP port	4

Technology

Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1D for STP (Spanning Tree 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)
MAC Table	8192 MAC addresses
Priority Queues	4
Processing	Store-and-Forward
Switch Properties	Switching latency: 7 us Switching bandwidth: 16Gbps Max. Number of Available VLANs: 4096 IGMP multicast groups: 1024 Port rate limiting: User Define
Security Features	Enable/disable ports, MAC based port security Port based network access control (802.1x) VLAN (802.1Q) to segregate and secure network traffic Supports Q-in-Q VLAN for performance & security to expand the VLAN space Radius centralized password management SNMP V1/V2c/V3 encrypted authentication and access security
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (M-Ring) with recovery time less than 20ms over 250 units TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP Snooping for multicast filtering Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network Support PTP Client (Precision Time Protocol) clock synchronization DHCP Server / Client support Port Trunk support MVR (Multicast VLAN Registration) support
Network Redundancy	M-Ring, Open-Ring, M-RSTP, STP, RSTP, MSTP

Warning / Monitoring System	Relay output for fault event alarming Syslog server / client to record and view events Include SMTP for event warning notification via email Event selection support
DDM Function	Voltage / Current / Temperature
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. 9600bps, 8, N, 1

LED indicators

Power Indicator	Green : Power LED x 3
R.M. Indicator	Green : Indicate system operated in M-Ring Master mode
Ring Indicator	Green : Indicate system operated in M-Ring mode
Fault Indicator	Amber : Indicate unexpected event occurred
10/100/1000Base-TX RJ45 port indicator	Green for port Link/Act. Amber for 100Mbps indicator
100/1000Base-X SFP Port Indicator	Green for port Link/Act.

Fault contact

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

Redundant Input Power	Dual DC inputs. 12~48VDC on 6-pin terminal block
Power Consumption (Typ.)	25 Watts
Overload Current Protection	Yes
Reverse polarity protection	Yes

Physical Characteristic

Enclosure	IP-30
Dimension (W x D x H)	74.3(W)x109.2(D)x153.6(H) mm (2.93 x 4.3 x 6.05 inch)
Weight (g)	1075 g (2.37 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

Ordering Information

Description	MS8GT4GX4 - Hardened 8-port managed Gigabit Ethernet switch with 4 port 10/100/1000TX (RJ45) + 4 port 10/(100/1000 SFP)/RJ45 Combo
SFP Options	refer to Optical SFP Data Sheet for complete part numbers and ordering information
Power supplies	PSH24DC24 - 24VDC @ 1 Amp (24 Watts) PSH24DC40 - 24VDC @ 1.7 Amps (40 Watts) PSH48DC240 - 48VDC @ 5 Amp Amps (240 Watts) PSH48DC480 - 48VDC @ 10 Amp Amps (480 Watts)
SpectraVISION	S500 - Powerful Network Management Windows Utility Suit, 500 IP devices

Packing List

MS8GT4GX4	1
Wall-Mount Kit	1
Quick Installation Guide	1
Din-Rail Kit (attached)	1
Console Cable	1