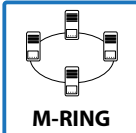
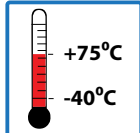
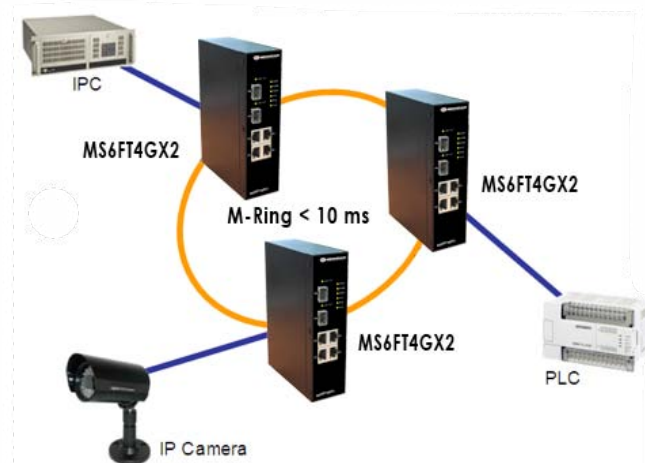


**HARDENED 6-PORT MANAGED ETHERNET SWITCH WITH 4 PORT 10/100TX (RJ45) + 2 PORT 100/1000BASE-X, SFP SOCKET**

**MANAGED ETHERNET SWITCH**
**FEATURES**

- Supports 4x10/100 TX and 2x100/1000Base-X, SFP socket
- World's fastest Redundant Ethernet Ring:  
M-RING (recovery time < 10ms over 250 units of connection)
- Open-Ring supports other vendor's ring technology in open architecture
- M-Chain allow multiple redundant network rings
- Supports standard IEC 62439-2 MRP (Media Redundancy Protocol) function
- MSTP/RSTP/STP(IEEE 802.1s/w/D)
- Supports PTP Client (Precision Time Protocol) clock synchronization
- Supports Modbus/TCP protocol
- 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 LLDP protocol
- Event notification through Syslog, Email and SNMP trap
- Port lock to prevents access from unauthorized MAC addresses
- Windows utility (SpectraVISION) supports centralized management and configurable by Web-based ,Telnet and Console (CLI)
- Rigid IP-30 housing

**DESCRIPTION**

Meridian's MS6FT4GX2 is a managed Redundant Ring Ethernet switch with 4x10/100Base-TX and 2x100/1000Base-X SFP ports. With complete support of Ethernet Redundancy protocol, M-RING (recovery time < 10ms 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 or temporary malfunctions with its fast recovery technology. All functions of the MS6FT4GX2 can be managed by a powerful windows utility — SpectraVISION (optional). In addition, with its wide operating temperature range from -40 to 75°C, this switch will operate even in the most severe environments. This switch is one of the most sought-after choices for highly-managed Fiber Ethernet applications.



## SPECIFICATIONS

### Physical Ports

10/100 Base-TX Port in RJ45 Auto MDI/MDIX	<b>4</b>
100/1000Base-X SFP ports	<b>2</b>
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. Baud rate setting: 9600bps, 8, N, 1

### 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 802.3x 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: 4.8Gbps 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 (O-Ring) with recovery time less than 10ms 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 Modbus TCP

Network Redundancy	M-Ring, Open-Ring, M-Chain, MRP, STP / RSTP / MSTP
Warning / Monitoring System	Syslog server / client to record and view events Include SMTP for event warning notification via email Event selection support

### LED Indicators

Power Indicator	Green : Power LED x 3
R.M. Indicator	Green : Indicate system operated in M-Ring Master mode
M-Ring Indicator	Green : Indicate system operated in M-Ring mode
Fault Indicator	Amber : Indicate port disconnected
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Act. Amber for Duplex/Collision
100/1000Base-X SFP Port Indicator	Green for port Link/Act

### Power

Input Power	Triple DC inputs. 12~48VDC on 7-pin terminal block, 12~45VDC on power jack
Power Consumption (Typ.)	7.5 Watts
Overload Current Protection	Yes

### Physical Characteristic

Enclosure	IP-30
Dimension (W x D x H)	50(W)x116(D)x160(H) mm (1.97 x 4.57 x 6.3 inch)
Weight (g)	403g (0.89 lb)
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

### Ordering Information

Description	<b>MS6FT4GX2 - Hardened 6-port managed Ethernet switch with 4 port 10/100TX (RJ45) + 2 port 100/1000Base-X, SFP socket</b>
SFP Options	<b>refer to Optical SFP Data Sheet for complete part numbers and ordering information</b>
Power supplies	<b>PSH24DC24 - 24VDC @ 1 Amp ( 24 Watts) PSH24DC40 - 24VDC @ 1.7 Amps ( 40 Watts)</b>
SpectraVISION	<b>S500 - Powerful Network Management Windows Utility Suit, 500 IP devices</b>

### Packing List

<b>MS6FT4GX2</b>	<b>1</b>
<b>Wall-Mount Kit</b>	<b>1</b>
<b>Quick Installation Guide</b>	<b>1</b>
<b>Din-Rail Kit (attached)</b>	<b>1</b>
<b>Console Cable</b>	<b>1</b>