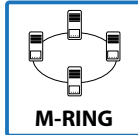
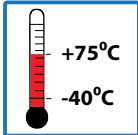
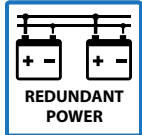


## HARDENED 18-PORT MANAGED ETHERNET SWITCH WITH 16x10/100BASE-T(X) AND 2xGIGABIT COMBO PORTS, SFP SOCKET



MANAGED ETHERNET SWITCH

### FEATURES

- Fastest Redundant Ethernet Ring : M-Ring (recovery time < 10ms over 250 units of connection)
- Open-Ring supports other vendors' 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 for support) 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, SNMP trap, and Relay Output
- Port lock to prevent access from unauthorized MAC address
- Windows utility (SmartVision) supporting centralized management and
- configurable by Web-based, Telnet, and Console (CLI)
- Supports two Gigabit combo ports
- Rigid IP-30 housing design
- DIN-Rail and wall mounting enabled

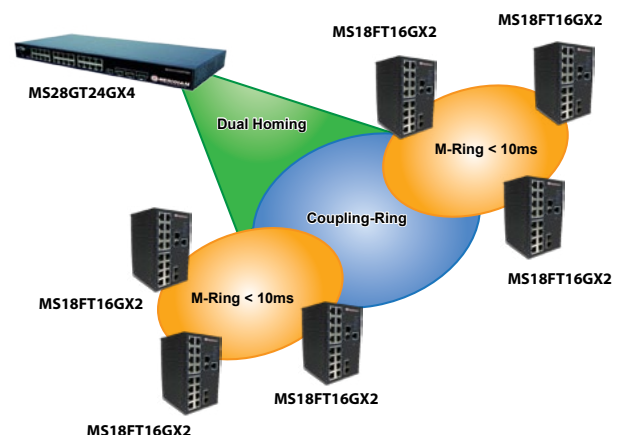
### DESCRIPTION

Meridian's MS18FT16GX2 is the managed Redundant Ring Ethernet switch with 16x10/100Base-T(X) ports and 2xGigabit combo ports.

With complete support of Ethernet Redundancy protocol, M-Ring (recovery time < 10ms over 250 units of connection), Open-Ring, M-RSTP and MSTP/RSTP/STP (IEEE 802.1s/w/D) can protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology.

All function of MS18FT16GX2 can be managed centralized and convenient by a powerful windows utility — SmartVision.

In addition, the wide operating temperature range from -40 to 75°C can satisfy most of operating environment. Therefore, the switch is one of the most reliable choice for highly-managed and Fiber Ethernet application.



## SPECIFICATIONS

### Physical Ports

10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	16
Gigabit combo Port with 10/100/1000Base-T(X) and 100/1000Base-X SFP Port	2

### 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 : 9 µs Switching bandwidth : 7.2Gbps Max. Number of Available VLANs : 4096 IGMP multicast groups : 1024 Port rate limiting : User Defined
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 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 v2/v3 (IGMP snooping support) 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
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
M-Ring Indicator	Green : Indicates that the system is operating in M-Ring mode
Fault Indicator	Amber : Indicate unexpected event occurred
10/100Base-TX RJ45 Port Indicator	Green for port Link/Act. Amber for Duplex/Collision
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.)	12 Watts
Overload Current Protection	Yes
Reverse Polarity Protection	Yes on terminal block

### Physical Characteristic

Enclosure	IP-30
Dimension (W x D x H)	96.4(W)x108.5(D)x154(H) mm (3.8 x 4.27 x 6.06 inch)
Weight (g)	1220 g (2.7lb)

### 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

Description	MS18FT16GX2 - Hardened 18-port managed Ethernet switch with 16x10/100Base-T(X) and 2xGigabit combo ports, SFP socket
SFP Options	refer to Optical SFP Data Sheet for complete part numbers and ordering information
Recommended Power supplies	PSH24DC24 - 24VDC @ 1 Amp ( 24 Watts) PSH24DC40 - 24VDC @ 1.7 Amps ( 40 Watts)
SpectraVISION Software	Consult factory for pricing and availability

### Packing List

MS18FT16GX2	1
Wall-Mount Kit	1
Quick Installation Guide	1
Din-Rail Kit (attached)	1
M-Ring Tool CD	1
Console Cable	1