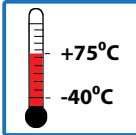


**HARDENED 24-PORT MANAGED GIGABIT ETHERNET SWITCH WITH  
16xGIGABIT COMBO PORTS + 8x100/1000BASE-X SFP PORTS**

**MANAGED ETHERNET SWITCH**

## FEATURES

- Supports 16 Gigabit combo ports and 8 (100/1000Base-X) SFP ports operation
- World's fastest Redundant Ethernet Ring:  
M-Ring (recovery time < 20ms over 250 units of connectivity)
- M-Ring supports other vendor's ring technology in open architecture
- MSTP/RSTP/STP (IEEE 802.1s/w/D) supported for Ethernet Redundancy
- Supports IPV6 new internet protocol version
- Provided HTTPS/SSH protocol to enhance network security
- Supports SMTP client
- Support IP-based bandwidth management
- Support application-based QoS management
- Support IP Police security function
- Support DOS/DDOS auto prevention
- Supports Port Mirroring
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Support SNMP v1/v2c/v3 & RMON & 802.1Q VLAN Net. Management
- Support ACL, 802.1x User Authentication for security
- Support 9K Bytes Jumbo Frame
- Multiple notification for warning of unexpected event
- Web-based, Telnet, Console (CLI) and Windows utility (SpectraVISION v3.0) configuration
- Support LLDP Protocol
- 19-inch rack-mountable, fanless enclosure

**Network connection**



## DESCRIPTION

The Meridian MS24GX24 is a managed redundant ring Ethernet switch with 16xGigabit Combo ports and 8x10/100/1000Base-X SFP ports. Gigabit Ethernet Combo port supports both, copper (RJ-45) connections and industry-standard small form factor pluggable (SFP) modules.

With complete support of Ethernet redundancy protocol, M-Ring (recovery time < 20ms over 250 units), MSTP/RSTP/STP (IEEE 802.1s/w/D) these switches will protect your mission-critical applications from network interruptions with its fast recovery technology. This switch series provide advanced IP based bandwidth management which can limit the maximum bandwidth for each IP device. User can configure IP camera and NVR with more bandwidth and limit other device bandwidth. MS24GX24 also supports application-based QoS. Application-based QoS can set highest priority for data stream according to TCP/UDP port number. Special IP police function will make operation hacker proof. MS24GX24 can be managed by the powerful windows utility SpectraVISION. This switch is one of the most sought-after choices for highly-managed Fiber Ethernet applications.



## SPECIFICATIONS

Physical Ports		LED indicators	
Gigabit Combo port with 10/100/1000Base-T(X) and 100/1000Base-X SFP ports	16	Power Indicator	Green : Power On
100/1000Base-X with SFP port	8	System-Ready Indicator (STA)	Green : Indicates that the system is ready. The LED is blinking when the system is upgrading firmware
Technology		Ring Master Indicator (R.M.)	Green : Indicates that the system is operating in M-Ring Master mode
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 802.1D for STP (Spanning Tree Protocol), 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)	Ring Indicator	Green : Indicate system operated in M-Ring mode Green Blinking: Indicates that the Ring is broken
		System Running Indicator (RUN)	Green : System is operating continuously
MAC Table	8192 MAC addresses	Supervisor Login Indicator (RMT)	Green : System is accessed remotely
Priority Queues	4	Reset To Default Running Indicator (DEF)	Green : System resets to default configuration
Processing	Store-and-Forward	Ping Command To The Switch Indicator (Ping)	Green : System is processing "PING" request
Switch Properties	Switching latency: 7 $\mu$ s, Switching bandwidth: 48Gbps Max. Number of Available VLANs: 256, IGMP multicast groups: 128 for each VLAN, Port rate limiting: User Define	10/100/1000Base-TX RJ45 port indicator	Left Green for 1000Mbps Link/Act indicator Amber for 10/100Mbps Link/Act indicator Right Amber for full-duplex indicator
Jumbo frame	Up to 9K Bytes	100/1000Base-X SFP Port Indicator	Green for port Link/Act
Security Features	IP Police 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	Power	
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (M-Ring) with recovery time less than 25ms 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 IP-based bandwidth management Application-based QoS management DOS/DDOS auto prevention Port configuration, status, statistics, monitoring, security DHCP Client/Server SMTP Client	Power Input	100~240VAC / 100~370 VDC
Network Redundancy	M-Ring, Fast Recovery Mode, STP, RSTP, MSTP	Power Consumption (Typ.)	33 Watts
RS-232 Serial Console Port	RS-232 IN DB9 conn. with console cable. 115200bps, 8, N, 1	Overload Current Protection	Yes
		Physical Characteristic	
		Enclosure	19 inches rack-mountable, fanless, IP-30
		Dimension (W x D x H)	431 (W) x 342 (D) x 44 (H) mm (16.96 x 13.46 x 1.73 inch)
		Weight (g)	4350 g ( 9.60 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; MTBF (MIL-HDBK-217F2, GB, GC, 25°C) : 89,996 Hours;	

Ordering Information		Packing List	
Description	MS24GX24 - Hardened 24-port managed Gigabit Ethernet switch with 16xGigabit combo ports + 8x100/1000Base-X SFP ports, power input - 100~240VAC	MS24GX24	1
SFP Options	refer to Optical SFP Data Sheet for complete part numbers and ordering information	Rack-Mount Kit	1
SpectraVISION Software	Consult factory for pricing and availability	Console Cable	1
		Power Cable	1
		M-Ring Tool CD	1
		Quick Installation Guide	1