

**HARDENED 24-PORTS MANAGED LAYER 2 GIGABIT ETHERNET SWITCH WITH  
 16x10/100/1000BASE-T(X) RJ45 PORTS + 8x1000BASE-X SFP PORTS**

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

- 16x10/100/1000Base-T(X) and 8x100/1000Base-X SFP ports
- M-Ring (recovery time<15ms), RSTP/STP, and MSTP for network redundancy
- Support for IPv4 and IPv6
- Advanced routing with 1588 ptpv2
- Ethernet Ring Protection with STP/RSTP/MSTP/ITU-TG.8032
- IGMP v1/v2/v3 and MLD v1/v2 Snooping for filtering multicast traffic
- IEEE802.1Q VLAN/MAC based VLAN/Protocol based VLAN/ IP subnet based VLAN/QinQ/GVRP/MVR is supported
- DHCP Server/Client/Relay/Snooping for IP security management
- Port-based IEEE802.1X/Single and multiple IEEE802.1X/ MAC-based authentication/VLAN Assignment/ IP source guard/ RADIUS/TACACS+/ACL/SSHv2/HTTPS
- DNS client/proxy is supported
- LACP/Link Aggregation Static for increases throughput
- Supports Port mirroring, port speed limits, broadcast, Storm control
- Two 2.5G fiber ports with backward 1G compatibility
- WEB interface Management, CLI-Console/Telnet can be utilized
- SNMPv1/v2/v3 RMON/System Syslog for traffic monitoring
- EMC industrial level 4
- IP40 protection, metal housing

**DESCRIPTION**

The Meridian MS24GT16GX8 is a managed Gigabit Ethernet switch with 16x10/100/1000Base-TX and 8x100/1000Base-X SFP ports with complete support of Ethernet redundancy protocol. M-Ring (recovery time≤15ms).

This switch can be managed using web browser interface or optional Windows utility - SpectraVISION.

The switch is designed to work in wide operating temperature from -40 °C to 75 °C, to make it completely suitable for harsh environments.

**MARKETS**

- \* Highway monitoring/communication systems
- \* City intelligent transportation systems
- \* Rail transportation monitoring/communication systems
- \* Large-scale industrial communication systems
- \* Railway electric industry control systems
- \* Thermal power industrial control systems
- \* State grid industrial communication systems

**SPECIFICATIONS**

Physical Ports		Transmission Distance	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	16	Twisted pair	100m(Adopt standard CAT5, CAT5e)
100/1000Base-X SFP port	8	Multi-mode	1310nm 5KM(100M), 850nm 550M(1000M)
Technology		Single mode	1310nm 40KM/60KM(100M) 1550nm 60KM/80KM(100M) 1310nm 10KM/40KM(1000M) 1550nm 60KM/80KM(1000M)
Ethernet Standards	IEEE802.3i/802.3u/802.3ab/802.3z/802.3x/802.3ad/802.1p/ 802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/802.1x/ 802.1ab, IEEE802.3af-2003, IEEE802.3at-2009	LED indicators	
Protocol	M-Ring, IGMP v1/v2/v3 Snooping, GVRP, SNMPv1/2/3, MLD v1/v2 Snooping, DHCP Server/Client/Relay/snooping, RMON, HTTPS, Telnet, System syslog, SSHv2, DNS client/proxy, CLI-Console, Q-in-Q, RADIUS, TACACS+, ACL	Power	Green LED: On - Power is On, Off - Power is Off.
MIB	MIB-II, Ethernet-Like MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9	System Indicator	Green LED: On - The system is On, Off - The system is Off.
DDM Function	Tx/Rx Optical Power and Temperature control	POE Indicator	Green LED: On - POE is active, Off - POE is not active.
Flow Control	IEEE802.3x flow control, back pressure flow control	10/100/1000Base-T(X) RJ45 Port Indicator	Yellow LED: On - The port speed is 1000Mbps. Off - The port speed is 10Mbps or 100Mbps. Green LED: On and Blinking - Port LINK UP, data is transmitted. On - No Blinking - Port LINK UP Off - Port LINK DOWN
Switch Properties		1000Base-X SFP Port	Green LED: On-Port LINK UP On and Blinking-Data is transmitted. Off-Port LINK DOWN
Priority Queues	8	Power	
Maximum No. of Available VLANs	4094	Input Voltage	24 ~ 48VDC redundant inputs
VLAN ID Range	1-4094	Full Load	20W max
MAC Table Size	8K	Overload Current Protection	Yes
Packet Buffer Size	4Mbit	Reverse Polarity Protection	Yes
Packet Forwarding Rate	35.71Mpps	Connection	7-Pin terminal block
Switching delay	<5μS	Physical Characteristic	
Interfaces		Enclosure	IP40 rated metal enclosure, fanless
SFP Port	100/1000Base-X, SFP interface	Dimension (W x D x H)	75(W)x128(D)x155(H) mm (2.95 x 5.03 x 6.10 inch)
RJ45 Port	10/100/1000Base-T(X) auto negotiation	Weight (g)	1500 g ( 3.3 lb)
Console Port	Micro USB connector, RS232 TX/RX	Mounting	DIN-Rail / Panel
Alarm Contact	2-pin relay output with current carrying capacity of 0.5A@60V	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

Ordering Information		Packing List	
Description	MS24GT16GX8 - Hardened 24-ports managed Gigabit Ethernet switch with 16x10/100/1000Base-T(X) RJ45 ports + 8x1000Base-X SFP ports	MS24GT16GX8	1
SFP Options	refer to Optical SFP Data Sheet for complete part numbers and ordering information	Wall-Mount Kit	1
SpectraVISION Software	Consult factory for pricing and availability	Manual CD	1
		Din-Rail Kit (attached)	1