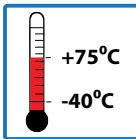
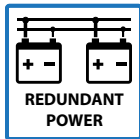


**HARDENED 10-PORT MANAGED LAYER 2 GIGABIT ETHERNET SWITCH WITH
 8x10/100/1000BASE-T(X) RJ45 PORTS + 2x1000BASE-X SFP PORTS**

MANAGED ETHERNET SWITCH

FEATURES

- IEEE 802.3af/at PoE compliant 8x10/100/1000Base-T(X) and 2x100/1000Base-X SFP ports
- M-Ring (recovery time<15ms), RSTP/STP, and MSTP for network redundancy
- Support IPv4/IPv6
- Support 1588 ptpv2, Sync-E
- Support ITU-T G.8032 Ethernet Ring Protection
- Support IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping
- Support IEEE802.1Q VLAN/MAC based VLAN/Protocol based VLAN/ IP subnet based VLAN/QinQ/GVRP/MVR
- Support DHCP Server/Client/Relay/snooping
- Support Port-based IEEE802.1X/Single and multiple IEEE802.1X/ MAC-based authentication/VLAN Assignment/ IP source guard/ RADIUS/TACACS+/ACL/SSHv2/HTTPS
- Support DNS client/proxy
- Support LACP/Link Aggregation Static
- Support port mirroring, port speed limit, broadcast storm control
- Support two 2.5G fiber port(optional 1G)
- Support web interface management, CLI-Console/Telnet,SNMPv1/v2/v3, RMON/System syslog
- EMC industrial level 4
- IP40 protection, metal housing

DESCRIPTION

The Meridian MS10GT8GX2 is a managed redundant ring Ethernet switch with 8x10/100/1000Base-TX and 2x1000Base-F(X) Ports with complete support of Ethernet redundancy protocol. M-Ring (recovery time≤15ms).

The MS10GT8GX2POEH is the P.S.E. version of the switch and supports Power over Ethernet, ability to transmit electrical power with data to remote devices over standard twisted-pair cable.

This switch has eight 1000Base-T(X) 30Watts P.S.E. (Power Sourcing Equipment) ports and two 1000Base-X ports, which are fully compliant with IEEE 802.3at, IEEE802.3 af standard.

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		LED indicators	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	8	Power	Green LED: On - Power is On, Off - Power is Off.
100/1000Base-X SFP port	2	System Indicator	Green LED: On - The system is On, Off - The system is Off.
Technology		POE Indicator	Green LED: On - POE is active, Off - POE is not active.
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	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
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	1000Base-X SFP Port	Green LED: On - Link/Act is active: On and Blinking-Port LINK UP, data is transmitted. On-Port LINK UP Off-Port LINK DOWN
MIB	MIB-II, Ethernet-Like MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9	Power	
DDM Function	Tx/Rx Optical Power and Temperature control	Input Voltage	48VDC redundant dual inputs
Flow Control	IEEE802.3x flow control, back pressure flow control	Full Load	12W
Switch Properties		Overload Current Protection	Yes
Priority Queues	8	Reverse Polarity Protection	Yes
Maximum No. of Available VLANs	4094	Connection	7-Pin terminal block
VLAN ID Range	1-4094	Physical Characteristic	
MAC Table Size	8K	Enclosure	IP40 rated metal enclosure, fanless
Packet Buffer Size	4Mbit	Dimension (W x D x H)	85(W)x105(D)x155(H) mm (3.35 x 4.13 x 6.10 inch)
Packet Forwarding Rate	14.88Mpps	Weight (g)	1000 g (2.2 lb)
Switching delay	<5μS	Mounting	DIN-Rail / Panel
Interfaces		Environmental	
SFP Port	100/1000Base-X, SFP interface	Storage Temperature	-40 to 85°C (-40 to 185°F)
RJ45 Port	10/100/1000Base-T(X) auto negotiation	Operating Temperature	-40 to 75°C (-40 to 167°F)
802.3af/at PoE Port	Up to 30W on each PoE port, 720mA	Operating Humidity	5% to 95% Non-condensing
Console Port	Micro USB connector, RS232 TX/RX	Regulatory approvals	
Alarm Contact	2-pin relay output with current carrying capacity of 0.5A@60V	EMI	FCC Part15 Subpart B Class A/EN55022 Class A
Transmission Distance		EMS	EMS: EN61000-4-2 (ESD) Level 3, EN61000-4-3 (RS) exceeds Level 3, EN61000-4-4 (EFT) Level 3, IEC 61000-4-5 (Surge) Level 3, IEC 61000-4-6 (CS) Level 2, IEC 61000-4-8 IEC 61000-4-11, IEC 61000-4-16
Twisted pair	100m(Adopt standard CAT5, CAT5e)	Shock	IEC60068-2-27
Multi-mode	1310nm 5KM(100M), 850nm 550M(1000M)	Free Fall	IEC60068-2-32
Single mode	1310nm 40KM/60KM(100M) 1550nm 60KM/80KM(100M) 1310nm 10KM/40KM(1000M) 1550nm 60KM/80KM(1000M)	Vibration	IEC60068-2-6
		Safety	EN60950-1

Ordering Information		Packing List	
Description	MS10GT8GX2 - Hardened 10-port managed Gigabit Ethernet switch with 8x10/100/1000Base-T(X) RJ45 ports + 2x1000Base-X SFP ports	MS10GT8GX2	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