MS10FT8GX2POEH

DigiNET

Hardened 10-port Managed Ethernet Switch with 8x10/100Base-T(X) PoE+ RJ45 ports and 2x1000Base-X SFP ports

MANAGED ETHERNET SWITCH

P.S.E PoE+ | REDUNDANT POWER | M-RING

FEATURES

- 8 IEEE 802.3af/at PoE compliance 10/100Base-T(X) ports, 2 1000Base-X SFP ports
- M-Ring (recovery time<20ms), RSTP/STP, and MSTP for network redundancy
- Configurable by CLI for advanced PoE management function
- Port-based VLAN, IEEE802.1Q VLAN and GVRP to ease network planning
- QoS and ToS/DiffServ to increase determinism
- Port Trunk for optimum bandwidth utilization
- IGMP snooping for filtering multicast traffic
- SNMPv3, IEEE 802.1X, HTTPS, and SSH to enhance network security
- SNMPv1/v2c/v3 for different levels of network management
- RMON for efficient network monitoring and proactive capability
- Bandwidth management prevents unpredictable network status
- Lock port function blocks unauthorized access, based on MAC address
- Automatic alarm through e-mail, relay output
- Supports port mirroring
- Supports traffic control of multicast and broadcast
- Supports DDM (Digital Diagnostic Monitoring) function
- Windows utility (SpectraVISION) supports centralized management and configurable by Web-based interface, Telnet and Console (CLI)

DESCRIPTION

Meridian's MS10FT8GX2POEH is a managed redundant ring Ethernet switch with 8x10/100Base-T(X) ports with PoE+ function and 2x1000Base-X SFP ports. With complete support of Ethernet redundancy protocol, M-Ring (recovery time < 20ms over 250 units of connection), MSTP/RSTP/STP, these switches will protect your mission-critical applications from network interruptions with its fast recovery technology.

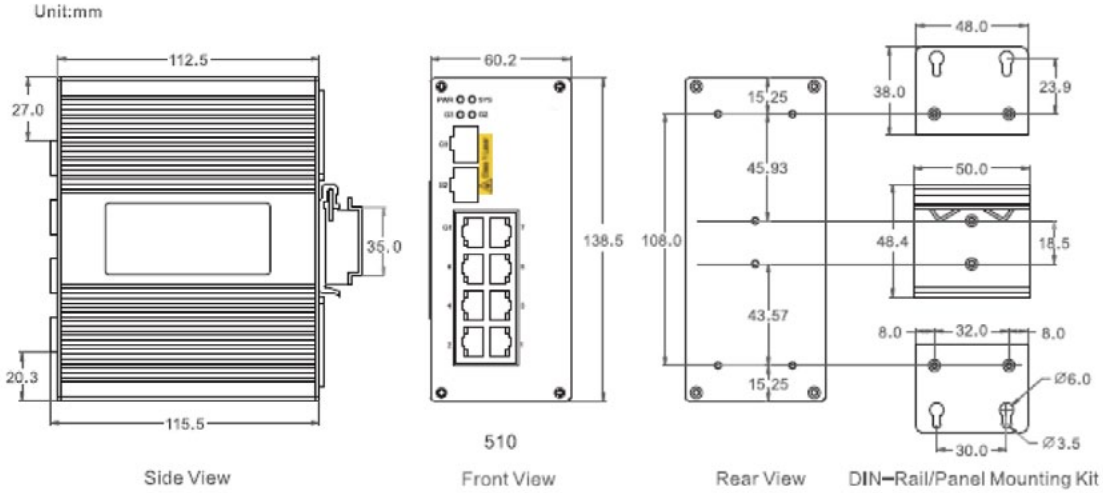
The MS10FT8GX2POEH also supports Power over Ethernet, a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network.

Each MS10FT8GX2POEH switch has 8X10/100Base-T(X) 30Watts P.S.E. (Power Sourcing Equipment) ports. P.S.E. is a device that will provide power in a PoE setup.

MS10FT8GX2POEH supports the DDM (Digital Diagnostic Monitoring) function, which can monitor the status of Tx/Rx Optical Power and Temperature in real time.

In addition, with its wide operating temperature range from -40 to 85°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 with PoE functionality.

Unit:mm



SPECIFICATIONS

Physical Ports	
10/100Base-T(X) Ports in RJ45	**8**
1000Base-X SFP port	**2**
Technology	
Standards	IEEE 802.3af / IEEE 802.3at PoE IEEE 802.3 IEEE 802.3u IEEE 802.1D-2004 for STP IEEE 802.1w for Rapid STP IEEE 802.1Q for VLAN Tagging IEEE 802.1p for Class of Service IEEE 802.1X for Authentication IEEE 802.3ad for Port Trunk with LACP IEEE 802.3x for Flow Control
Protocol	M-Ring, IGMPv1/v2, GVRP, SNMPv1/v2c/v3, DHCP Client, TFTP, SMTP, RMON, HTTP, HTTPS, Telnet, Syslog, SSH, SNMP Inform, LLDP, SNTP Server/Client
MIB	MIB-II, Ethernet-Like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9
DDM Function	Tx/Rx Optical Power and Temperature control
Flow Control	IEEE 802.3x flow control, back pressure flow control
Switch Properties	
Priority Queues	4
Maximum No of Available VLANs	256
VLAN ID Range	VID 1 to 4094
IGMP Groups	256
MAC Table Size	8K
Packet Buffer Size	1Mbit
Interfaces	
SFP Port	1000Base-X, SFP interface
RJ45 Port	10/100Base-T(X) auto negotiation
802.3af/at PoE Port	Up to 30W at 48-50V DC power output on each PoE port, 600mA
Console Port	RS-232(RJ45 connector)
Alarm Contact	2 relay outputs with current carrying capacity of 0.5A@48V

LED indicators	
Power Indicator	Yellow On—Power on Yellow Off—Power off
System indicator	Green On—The system starts up successfully Green Off — The system doesn't start up successfully
10/100Base-T(X) RJ45 Port Indicator	Green for port speed: Green On —The port works at 100Mbps. Green Off—The port works at 10Mbps. Yellow for port Link/Act: Yellow On and Blinking—Port LINK UP, data is transmitted. Yellow On – No Blinking –Port Link Up Yellow Off - Port Link down
1000Base-X Fiber Port Indicator	Green for port Link/Act: Green On and Blinking—Port Link Up, data is transmitted. Green On—Port Link Up Green Off—Port Link Down
Power	
Input Voltage	48V DC Redundant dual inputs
Input Current	1.8A@48VDC (support up to 8 ports at 15.4W / 30W)
Full Load	9.95W (choose available 48VDC power according to PoE supply demand) Overload Current
Overload Current Protection	Yes
Reverse Polarity Protection	Yes
Redundant Protection	Yes
Connection	6-pin terminal block
Physical Characteristic	
Enclosure	Metal housing with IP40 Protection
Dimension (W x D x H)	60.2 (W) x 115.5 (D) x 138.5 (H) mm (2.37 x 4.45 x 5.44 inch)
Weight (g)	750 g (1.65 lb)
Installation	Din-Rail mounting, Wall mounting
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 Subpart B Class A, EN 55022 Class
EMS	EN 61000-4-2 (ESD) Level 3, EN 61000-4-3 (RS) Level 3, EN 61000-4-4 (EFT) Level 3, EN 61000-4-5 (Surge) Level 3, EN 61000-4-6 (CS) Level 3, EN 61000-4-8 Level 3
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Ordering Information	
Description	**MS10FT8GX2POEH - Hardened 10-port Managed Ethernet Switch with 8x10/100Base-T(X) PoE+ RJ45 ports and 2x1000Base-X SFP ports**
SFP Options	**refer to Optical SFP Data Sheet for complete part numbers and ordering information**
Power supplies	**PSH48DC240 - 48VDC @ 5 Amp Amps (240 Watts)**

Packing List	
MS10FT8GX2POEH	**1**
Wall-Mount Kit	**1**
Manual CD	**1**
Din-Rail Kit (attached)	**1**