

## MS12GT8GX4 MS12GT8GX4POEH

# DigiNET

#### HARDENED 12-PORT MANAGED LAYER 2 GIGABIT ETHERNET SWITCH WITH 8x10/100/1000BASE-T(X) RJ45 PORTS + 4x1000BASE-X SFP PORTS



#### **FEATURES**

- IEEE 802.3af/at PoE compliant 8x10/100/1000Base-T(X) and 4x100/1000Base-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, Sync-E
- 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 compatability
- 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 MS12GT8GX4 is a managed Gigabit Ethernet switch with 8x10/100/1000Base-TX and 4x100/1000Base-X SFP ports with complete support of Ethernet redundancy protocol. M-Ring (recovery time $\leq 15$ ms).

The MS12GT8GX4POEH 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 four 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  $^{\circ}$ C to 75  $^{\circ}$ 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		Alarm Contact	2-pin relay output with current carrying capacity of
10/100/1000Base-T(X)Ports		Transmission Distance	0.5A@60V
in RJ45 Auto MDI/MDIX	8		
		Twisted pair	100m(Adopt standard CAT5, CAT5e)
100/1000Base-X SFP port	4	Multi-mode	1310nm 5KM(100M), 850nm 550M(1000M)
Technology		Single mode	1310nm 40KM/60KM(100M) 1550nm 60KM/80KM(100M)
Ethernet Standards	IEEE802.3i/802.3u/802.3ab/802.3z/802.3x/802.3ad /802.1p/		1310nm 10KM/40KM(1000M) 1550nm 60KM/80KM(1000M)
	802.1q/802.1d/802.1w/802.1s/802.1ad/802.3az/8 02.1x/	LED indicators	
	802.1ab, IEEE802.3af-2003, IEEE802.3at-2009	Power	Green LED: On - Power is On, Off - Power is Off.
Protocol	M-Ring, IGMP v1/v2/v3 Snooping, GVRP, SNMPv1/2/3,	System Indicator	Green LED: On - The system is On, Off - The system is Off.
	MLD v1/v2 Snooping, DHCP Server/Client/Relay/ snooping, RMON, HTTPS, Telnet, System syslog,	POE Indicator	Green LED: On – POE is active, Off – POE is not active.
	SHv2, DNS client/proxy, CLI-Console, Q-in-Q, RADIUS, TACACS+, ACL	10/100/1000Base-T(X) RJ45 Port Indicator	Yellow LED: On - The port speed is 1000Mbps. Off - The port speed is 10Mbps or 100Mpbs.
MIB	MIB-II, Ethernet-Like MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1, 2, 3, 9		Green LED: On and Blinking – Port LINK UP, data is transmit- ted. On – No Blinking – Port LINK UP
DDM Function	Tx/Rx Optical Power and Temperature control		Off – Port LINK DOWN
Flow Control	IEE802.3x flow control, back pressure flow control	1000Base-X SFP Port	Green LED: On-Port LINK UP
Switch Properties			On and Blinking-Data is transmitted. Off-Port LINK DOWN
Priority Queues	8	Power	OIT FOIL LINK DOWN
Maximum No. of Available VLANs	4094	Input Voltage	48VDC redundant inputs
VLAN ID Range	1-4094	Full Load	15W max
MAC Table Size	8K	Overload Current Protection	Yes
Packet Buffer Size	4Mbit	Reverse Polarity Protection	Yes
Packet Forwarding Rate	17.85Mpps	Connection	7-Pin terminal block
Switching delay		Physical Characteristic	ID40 rated metal enclosure failers
Interfaces	<5µS	Enclosure	IP40 rated metal enclosure, fanless
SFP Port		Dimension (W x D x H) Weight (g)	55(W)x128(D)x155(H) mm (2.16 x 5.03 x 6.10 inch) 1500 g ( 3.3 lb)
	100/1000Base-X, SFP interface	Mounting	DIN-Rail / Panel
RJ45 Port	10/100/1000Base-T(X) auto negotiation	Environmental	
802.3af/at PoE Port	Up to 30W on each PoE port, 720mA	Storage Temperature	-40 to 85°C (-40 to 185°F)
Console Port	Micro USB connector, RS232 TX/RX	Operating Temperature	-40 to 75°C (-40 to 165°F)

Ordering Information		Packing List	Packing List	
Description	MS12GT8GX4 - Hardened 12-port managed Gigabit Ethernet switch with 8x10/100/1000Base-T(X) RJ45 ports + 4x1000Base-X SFP ports	MS12GT8GX4 or MS12GT8GX4P0EH	1	
	MS12GT8GX4P0EH - Hardened 12-port managed Gigabit Ethernet switch with 8x10/100/1000Base-T(X) PoE+ ports + 4x1000Base-X SFP ports	Wall-Mount Kit	1	
SFP Options	refer to Optical SFP Data Sheet for complete part numbers and ordering information	Manual CD	1	
SpectraVISION Software	Consult factory for pricing and availability	Din-Rail Kit (attached)	1	
		v 0	6/2019	

Operating Humidity

5% to 95% Non-condensing

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