MS28GT24GX4POEH

DigiNET

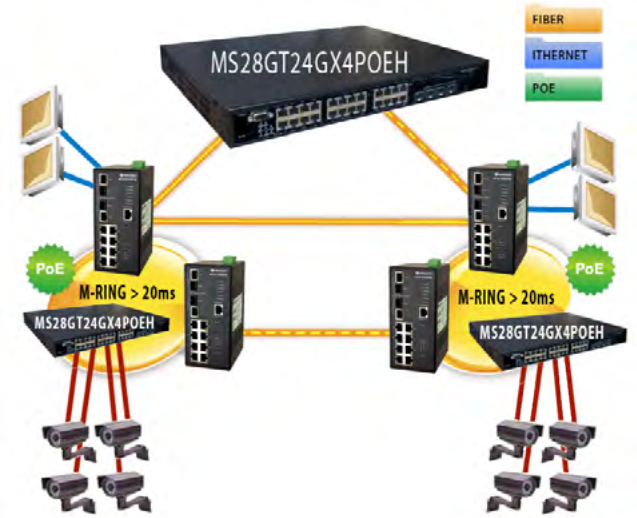
24 Port 10/100/1000TX (RJ-45) (PoE + 30W) + 4x 1000FX (SFP), Internal 1000W PS (US), Rack Mount

MANAGED ETHERNET SWITCH

FULL GIGABIT | +75°C -40°C | M-RING | P.S.E PoE+

FEATURES

- Support M-Ring (recovery time < 20ms over 250 units of connection), MSTP/RSTP/STP (IEEE 802.1s/w/D) for Ethernet Redundancy
- Support Jumbo frame up to 9K Bytes
- 24 ports of 10/100/1000Base-T(X) P.S.E. fully compliant with IEEE802.3at standard, provide up to 30 Watts per port
- Internal power supply
- Support IP-based bandwidth management
- Support application-based QoS management
- Support DOS/DDOS auto prevention
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Support SNMP v1/v2c/v3, RMON and 802.1Q VLAN Network Management
- Support ACL, 802.1x User Authentication for security
- Multiple notification for warning of unexpected event
- Windows utility (SpectraVISION v3.0) support centralized management and configurable by Web-based interface, Telnet and Console (CLI)
- Support LLDP Protocol
- 19", 1RU rack-mountable design



DESCRIPTION

The Meridian MS28GT24GX4POEH product is a managed Redundant Ring Ethernet switch with 24x10/100/1000Base-T(X) ports and 4 additional 1000Base-X SFP optical ports. Each of the electrical ports also supports PoE+ (P.S.E.) device power capabilities. With support from the M-Ring Ethernet Redundancy protocol this switch will protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. The ring recovery time is <20ms with up to 250 concatenated switches. This switch provides advanced IP-based bandwidth management allowing the user to control the available bandwidth available for each port – further enhancing the switch's efficiency. This switch also supports application-based QoS to priorities port access.

A special IP monitoring function is incorporated into the switch to prevent unauthorized personnel from accessing the network. This precludes persons from accessing video privacy data and attacking IP cameras, NVRs and controllers. This switch also provides advanced DOS/DDOS auto prevention. This feature is used to prevent and lock out excessive amounts of data that would otherwise overwhelm the network, resulting in a significant slowdown or failure of the network. It incorporates hardware-based protection so it can prevent DOS/DDOS attacks immediately and completely. Power over Ethernet (PoE+) is also available on each electrical port.

Port power of up to 30 watts/each is available to power cameras, PTZ mechanisms, etc. P.S.E. is a device (switch or hub for instance) that will provide power in a PoE connection. All functions of the switch can be managed conveniently by a powerful windows utility — SpectraVision v3.0 or above. These switches are the most reliable choices for highly managed Gigabit Fiber Ethernet applications with PoE functionality.

SPECIFICATIONS

Physical Ports	
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX with P.S.E.	**24**
1000Base-X SFP Port	**4**

Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.z 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) IEEE 802.3at PoE specification (up to 30 Watts per port for P.S.E.)
MAC Table	8K
Priority Queues	4
Processing	Store-and-Forward
Switch Properties	Switching latency : 7 µs Switching bandwidth : 56Gbps Max. Number of Available VLANs : 256 IGMP multicast groups : 128 for each VLAN Port rate limiting : User Define
Jumbo frame	Up to 9K Bytes
Security Features	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
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (O-Ring) with recovery time less than 20ms 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
Network Redundancy	M-Ring, Open-Ring, M-RSTP, STP, RSTP, MSTP
RS-232 Serial Console Port	RS-232 in DB9 connector with console cable. 115200bps, 8, N, 1

DDM Function	Voltage / Current / Temperature
RS-232 Serial Console Port	RS-232 in RJ45 conn. w/ console cable. 9600bps, 8, N, 1

LED indicators	
Power indicator (PWR)	Green : For AC power indicator
System ready indicator (STA)	Green : Indicates system ready. Blinking for system is upgrading firmware.
Ring master indicator (R.M.)	Green : Indicates system operating in M-Ring Master mode
M-Ring indicator (Ring)	Green : Indicates system operating in M-Ring mode. Blinking to indicate Ring is broken.
Sysem runnig indicator (RUN)	Green : System operated continuously
Supervisor login indicator (RMT)	Green : System is accessed remotely
Reset to Default running indicator (DEF)	Green : System reset to default configuration
Ping command to the switch indicator (Ping)	Green : System is processing "PING" request
PoE indicator	Green for P.S.E. power output indicator
10/100/1000Base-T(X) RJ45 port indicator	Two color LED : Green for 1000Mbps Link/Act indicator. Amber for 10/100Mbps Link/Act indicator
1000Base-X SFP Fiber port indicator	Green for port Link/Act

Power	
Input Power	100~240VAC with power cord
Power supply	Internal
Power consumption (Typ.)	36Watts (Typ.), 756W(24 ports P.S.E. full loaded)
Overload current protection	Present

Physical Characteristic	
Enclosure	19", 1RU rack-mountable
Dimension (W x D x H)	17 (W) x 14 (D) x 1.75 (H) inch 431 x 342 x 44 mm
Weight (g)	12.66 lb (5740 g)

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 and Quality	
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
MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25°C)	245,478

Ordering Information	
Description	**MS28GT24GX4POEH - 24 Port 10/100/1000TX (RJ-45) (PoE + 30W) + 4x 1000FX (SFP), Internal 1000W PS (US), Rack Mount**
SFP Options	**refer to Optical SFP Data Sheet for complete part numbers and ordering information**
SpectraVISION Software	**Consult factory for pricing and availability**

Packing List	
MS28GT24GX4POEH	**1**
Rack-Mount Kit	**1**
Quick Installation Guide	**1**
Power Cable	**1**
Console Cable	**1**