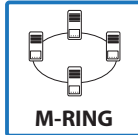
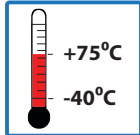
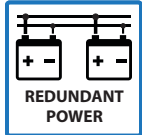


HARDENED 10-PORT MANAGED ETHERNET SWITCH WITH 7 PORT 10/100TX (RJ45) + 3 PORT 10/(100/1000 SFP)/RJ45 COMBO PORTS



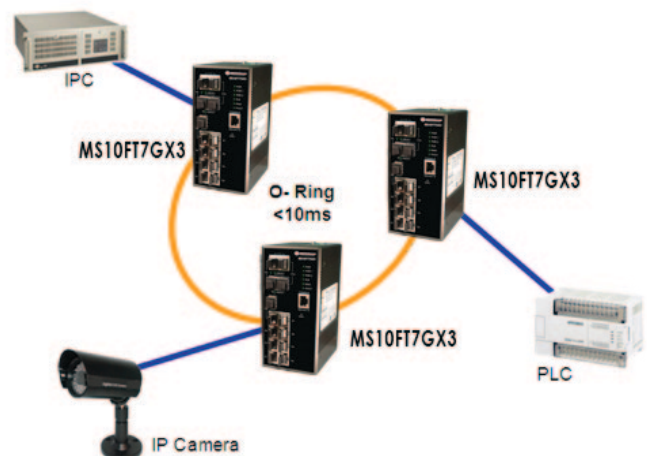
MANAGED ETHERNET SWITCH

FEATURES

- World's fastest Redundant Ethernet Ring: M-RING (recovery time < 10ms over 250 units of connection)
- Open-Ring supports other vendor's ring technology in open architecture
- M-RSTP support applications with complex topology
- STP/RSTP/MSTP supported
- Support PTP Client (Precision Time Protocol) clock synchronization
- IGMP v2/v3 (IGMP snooping support) for filtering multicast traffic
- Port Trunking for easy of bandwidth management
- SNMP v1/v2c/v3 support for secured network management
- RMON for traffic monitoring
- Supports DDM (Digital Diagnostic Monitoring) function
- Support LLDP protocol
- Port lock to prevent access from unauthorized MAC address
- Event notification through Syslog, Email, SNMP trap, and Relay Output
- Windows utility (Open-Vision) support centralized management and configurable by Web-based, Telnet, Console(CLI)
- Support 3 Gigabit combo ports
- Rigid IP-30 housing design
- DIN-Rail or wall mounting

DESCRIPTION

Meridian's MS10FT7GX3 is a managed Redundant Ring Ethernet switch with 7x10/100Base-TX and 3xGigabit combo ports. With complete support of Ethernet Redundancy protocol, M-RING (recovery time < 10ms over 250 units), Open-Ring, M-RSTP and MSTP/RSTP/STP (IEEE 802.1s/w/D) these switches will protect your mission-critical applications from network interruptions or temporary malfunctions with its fast recovery technology. All functions of the MS10FT7GX3 can be managed by a powerful windows utility — SpectraVISION (optional). MS10FT7GX3 supports the new DDM (Digital Diagnostic Monitoring) function, which can monitor the status of electrical voltage, current and temperature in real time. In addition, with its wide operating temperature range from -40 to 75°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 function.



SPECIFICATIONS

| Physical Ports | |
|---|---|
| 10/100 Base-TX Port in RJ45 Auto MDI/MDIX | 7 |
| Gigabit combo Ports with 10/100/1000Base-TX and 100/1000Base-X SFP Port | 3 |
| Technology | |
| Ethernet Standards | IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3ab for 1000Base-T IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging 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) |
| MAC Table | 8192 MAC addresses |
| Priority Queues | 4 |
| Processing | Store-and-Forward |
| Switch Properties | Switching latency: 7 us Switching bandwidth: 7.4Gbps Max. Number of Available VLANs: 4096 IGMP multicast groups: 1024 Port rate limiting: User Define |
| 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 Supports Q-in-Q VLAN for performance & security to expand the VLAN space Radius centralized password management SNMP v1/v2c/v3 encrypted authentication and access security |
| Software Features | STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring (M-RING) with recovery time less than 10ms 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 for multicast filtering Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network Support PTP Client (Precision Time Protocol) clock synchronization DHCP Server / Client support Port Trunk support MVR (Multicast VLAN Registration) support |
| Network Redundancy | Open-Ring, M-RSTP, STP, RSTP, MSTP |

| Warning / Monitoring System | Relay output for fault event alarming Syslog server / client to record and view events Include SMTP for event warning notification via email Event selection support |
|--|---|
| RS-232 Serial Console Port | RS-232 in RJ45 connector with console cable. 9600bps, 8, N, 1 |
| LED Indicators | |
| Power Indicator | Green : Power LED x 3 |
| R.M. Indicator | Green : Indicate system operated in M-RING master mode |
| Fault Indicator | Amber : Indicate unexpected event occurred |
| 10/100Base-TX RJ45 Port Indicator | Green for port Link/Act. Amber for Duplex/Collision |
| 10/100/1000Base-TX RJ45 Port Indicator | Green for port Link/Act. Amber for 100Mbps indicator |
| 100/1000Base-X SFP Port Indicator | Green for port Link/Act. |
| Fault contact | |
| Relay | Relay output to carry capacity of 1A at 24VDC |
| Power | |
| Redundant Input Power | Dual DC inputs. 12 ~ 48VDC on 6-pin terminal block |
| Power Consumption (Typ.) | 12 Watts |
| Overload Current Protection | Yes |
| Reverse Polarity Protection | Yes |
| Physical Characteristic | |
| Enclosure | IP-30 |
| Dimension (W x D x H) | 74.3(W)x109.2(D)x153.6(H) mm (2.93 x 4.3 x 6.05 inch) |
| Weight (g) | 1045 g (2.31lb) |
| 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, 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 |
| Safety | EN60950-1 |

| Ordering Information | |
|----------------------|--|
| Description | MS10FT7GX3 - Hardened 10-port managed Ethernet switch with 7 port 10/100TX (RJ45) + 3 port 10/(100/1000 SFP)/RJ45 Combo ports |
| SFP Options | refer to Optical SFP Data Sheet for complete part numbers and ordering information |
| Power supplies | PSH24DC24 - 24VDC @ 1 Amp (24 Watts) PSH24DC40 - 24VDC @ 1.7 Amps (40 Watts) PSH48DC240 - 48VDC @ 5 Amp Amps (240 Watts) PSH48DC480 - 48VDC @ 10 Amp Amps (480 Watts) |
| SpectraVISION | S500 - Powerful Network Management Windows Utility Suit, 500 IP devices |

| Packing List | |
|--------------------------|---|
| MS10FT7GX3 | 1 |
| Wall-Mount Kit | 1 |
| Quick Installation Guide | 1 |
| Din-Rail Kit (attached) | 1 |
| Console Cable | 1 |