

Item 001
Management Cables

MIL-STD-38999 Series III connectors

- Size 23 Contacts -for high speed signals such as 1000 Mbps Ethernet
- EMI Shielding and ESD Resistance
- Contact Protection
- Moisture Corrosion Resistant
- Vibration/Shock - Operates under severe high temperature with vibration, through 200°C
- Lock-wiring Eliminated

Item 002
Switch

Layer 2

- * Spanning Tree Protocol
 - IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
 - IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
 - Loopback detection
 - Auto edge port
 - BPDU filter/guard
- * Virtual Local Area Network (VLAN) .
 - IP subnet based VLAN
 - Private VLAN isolated
 - Private VLAN
 - GVRP/GARP
 - 802.1v protocol
 - Voice VLAN

- VLAN translation
- IPv6 VLANs
- VLAN trunking
- * Jumbo Frame: 9K
- * IGMP Snooping v1/v2/v3
- * Select Q-in-Q

Layer 3

- * Host table: 8K
- * Route table: 8K
- * Static route table: 512
- * Multicast table: 1K
- * Unicast routing
- Static unicast routes
- RIP v1/v2
- OSPF
- BGP
- * Multicast routing
- PIM-DM
- PIM-SM
- IGMP v1/v2/v3
- IGMP v3 proxy
- * IP redundancy
- * Proxy ARP
- * UDP Helper

Ethernet Performance

- * Ethernet Ports: 12 x 10/100/1000 Mbps
- * Switching capacity: 128 Gbps/176 Gbps
- * Forwarding Rate: 95.2 Mpps/130.9 Mpps
- * MAC Address Table Size: 16K
- * Packet Buffer Size: 2 MB

Security

- * Port security
- * IP Source Guard
- * Supports IEEE 802.1X port-based and MAC based access control
- * IP filter configuration for management interface (SNMP, Telnet, Web)
- * RADIUS authentication
- * Access Control List
- * SSH v2
- * HTTPS/SSL
- * MAC filter
- * Dynamic ARP Inspection
- * Switch Management
- CLI via console port or Telnet
- Web management
- SNMP v1, v2c, v3
- IGMP snooping (v1/v2)
- * Firmware and Configuration:
- CLI via console port or Telnet
- Web management
- SNMP v1, v2c, v3
- IGMP snooping (v1/v2)
- * Supports RMON (groups 1, 2, 3 and 9)
- * Supports BOOTP, DHCP for IP address assignment
- * DHCP Snooping
- * DHCP option 66, 67
- * Supports SNTP

- * Supports event/error log, system log
- * Cable diagnostics
- * ATC traffic control
- * Delay reload
- * sFlow
- * CPU Process Utilization
- * Cable Diagnostic
- * IP Clustering
- * Port Mirroring
- Quality of Service
- * Priority Queues: 8 hardware queues per port
- * Traffic classification based on IEEE 802.1p CoS, IP Precedence, DSCP, TCP/UDP port number, ACL and marking
- * DiffServ
- * Supports WRR and strict priority
- * Port rate limiting
- IPv6
- * IPv4/IPv6 Dual Protocol Stack
- * IPv6 Address Types: Unicast, Multicast
- * ICMPv6
- * ICMPv6 Redirect
- * IPv6 Path MTU Discovery
- * IPv6 Neighbor Discovery
- * SNMP over IPv6
- * HTTP over IPv6
- * SSH over IPv6
- * Support IPv6 Telnet
- * Support IPv6 DNS Resolver
- * Support IPv6 syslog
- * Support IPv6 Sntp
- * Support IPv6 TFTP
- * Remote IPv6 ping
- * Ping over IPv6
- * Trace route over IPv6
- * IPv6 DHCP relay
- * sFlow over IPv6
- * IPv6 ACL
- * IPv6 DiffServ
- * PIM-DMv6
- * PIM-SMv6
- * MVRv6

Physical Requirements:

- * Operating temperature: -40 to +75° C
- * Storage temperature: -40 to +85° C
- * Humidity: 5 to 95% RH (non-condensing)
- * Vibration: IEC 68-2-36, IEC 68-2-6
- * Shock: IEC 68-2-29
- * Drop: IEC-68-2-32
- * Vent plug for high-altitude operation
- * Dimensions (L x W x H): 13x6x3.75" MAX
- * Weight (including caps): 8.5 lbs
- * IP67 dust, oil and water-tight package protection
- * LED indicators: port, uplink, system, diagnostic
- * Tough corrosion proof aluminum case
- * Conductive cooling - no moving parts
- * Input voltage range: 18-36 VDC (continuous)

- * Input power: 35 W MAX
- * Reverse polarity protection
- * Exceeds MIL-STD-1275 for power protection
- * Surge protection: 100 volts for 1 second
- * Transient protection: 15,000 watts peak

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Attachment #1

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