

Technical Specifications

Standard:

IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX Fast Ethernet
IEEE 802.3x Flow Control and Back-pressure
IEEE 802.1d Spanning Tree Protocol
IEEE 802.1w Rapid Spanning Tree
IEEE 802.1p Class of service
IEEE 802.1q VLAN Tagging

RFC Standard:

RFC2030 SNMP, RFC 2821 SMTP, RFC 1215 Trap, RFC2233 MIBII,
RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB,
RFC 2665 Ethernet like MIB, RFC 2819 RMON MIB, Private MIB

Performance

Data Transfer Rate:

14,880 pps for Ethernet port
148,800 pps for Fast Ethernet port

MAC Address: 8K

Memory Buffer: 1 Mbytes

System Log: Supported

Network Media:

10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m)
100Base-TX: 2-pair UTP/STP Cat. 5/5e cable EIA/TIA-568 100-ohm (100m)

Packet Filter:

Broadcast packet filtering
-Number of MAC (50 Tables)
-IP Address Security (10 Sections)

Protocol Technology: CSMA/CD

Switching Architecture: Store and Forward

Back-plane: 1.6 Gbps

Port Statistics: Supported

Flow Control: Full-duplex and Back Pressure for Half-duplex

Packet Filter: Broadcast/Multi-cast/Unknown Broadcast storm packet filter

Transfer Packet Throughput: 1.19Mpps @ 64bytes

Regulatory Approvals

EMI: FCC Class A

EMS:

EN61000-4-2, EN61000-4-3, EN61000-4-4,
EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

Safety: UL, cUL, CE/EN60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

Class 1 DIV 2: Pending*

DNV: Pending *

Environmental: WEEE, RoHS

MTBF: 325,000 hrs based on Mil-Hdbk-217F, GB

Warranty: 5 years

Management Specifications

Redundancy:

STP, RSTP
Dual Homing, Ring Coupling
X-Ring with recovery time < 10ms

Management Protocols:

SNMP v1/v2c, SMTP, SNMP, IGMP v1/v2 & Query mode, DHCP/Client, TFTP

MIB: MIB-II, Bridge MIB, Ethernet like MIB, VLAN MIB, Private MIB

Configuration:

Web interface management
Default button is available to restore default settings

VLAN:

Port Based VLAN
IEEE 802.1Q Tag VLAN (256 entries)
VLAN ID (Up to 4K, VLAN ID can be assigned from 1 to 4096.)
GVRP (256 Groups)*
Double Tag VLAN (Q in Q)*
Private VLAN*

Quality of Service:

The quality of service determined by port,
Tag and IPv4 Type of service,
IPv4/IPv6 Different Service*

Port Mirroring: Support 3 mirroring types: "RX, TX and Both packet"

IP Security:

Support 10 IP address accounts for system management security for Web,
SNMP and Telnet management security to prevent intruder.

IGMP Snooping: v1 and v2, query mode, multicast group with 256 entries

Class of Service: Support IEEE802.1p class of service,
per port provides 4 priority queues

System Log: Support System log record and remote system log server

SNMP Trap: Up to 3 Trap stations
Cold start, Port link up, Port link down, Authentication Failure,
Private Trap for power status, Port Alarm configuration,
Fault alarm, X-Ring topology change

DNS: Provide DNS client feature and support Primary and Secondary DNS server*

SMTP: Support SMTP Server and 6 e-mail accounts for receiving event alert

SNTP: Support SNTP to synchronize system clock in Internet