

8-Port 10/100/1000Mbps Gigabit Ethernet with 2 port SFP , Network Ring Solution



Features

- Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX Ethernet standard
- 8-Port 10/100/1000Mbps Gigabit Ethernet ports
- 2 mini-GBIC/SFP slots, shared with Port-7 and Port-8
- Each Switching port supports auto-negotiation-10/20, 100/200 and 1000/2000Mbps supported
- Auto-MDI/MDI-X detection on each RJ-45 port supports CSMA/CD protocol
- Prevents packet loss with back pressure (Half-Duplex) and 802.3x PAUSE frame flow control (Full-Duplex)
- 8K MAC address table, automatic source address learning and ageing
- 16Gbps switch fabric, non-blocking switch architecture
- 9K Jumbo Frame supports at all speed (10/100/1000Mbps)

Layer 2 Switching

- Supports Port-Based and 802.1Q VLAN function, up to 64 VLAN groups IEEE 802.1w Rapid-Spanning Tree protocol supported
- Link Aggregation supports static mode and LACP (IEEE 802.3ad) - up to 4
- Trunk groups. Each trunk is maximum up to 8 ports Multicast
- IGMP Snooping for multicast filtering, supports v1 and v2
- IGMP Query Mode supports for multimedia application Quality of Service
- 4 QoS classes per port
- Traffic class assignment based on 802.1p tag, or DSCP field
- Multicast and Broadcast Storm Control as well as Flooding Control
- Ingress Rate Limit and Egress Shaping for bandwidth control in steps of 128kbps

Security

- Port mirroring support for dedicated port monitoring
- 802.1X Port-Base access control, RADIUS Server Authentication
- Static MAC Address assigns destination MAC address at specific port

Management

- Remote Web management interface
- Firmware upgrade through Web interface
- Cable Diagnostics technology
- Supports SNMPv1 with RFC-1213/1573-Interface group and RMON Group 1 (Statistics)
- SNMP Trap
- Supports N-net Smart-DISCOVERY Utility for deploy management

Hardware Specification

Copper Ports	: 8 10/ 100/1000Base-T RJ-45 Auto-MDI/MDI-X ports
SFP/mini-GBIC Slots	: 2 SFP interfaces, shared with Port-7 and Port-8
Switch Architecture	: Store-and-Forward
Switch Fabric	: 16Gbps / non-blocking
Switch Throughput	: 11.9Mpps
Address Table	: 8K MAC address table with Auto learning function
Share Data Buffer	: 176K bytes on chip
Flow Control	: Back pressure for Half-Duplex : IEEE 802.3x Pause Frame for Full-Duplex
Jumbo Frame	: Up to 9K Bytes (Disable, 4K, 9K)
LED	: Power, 1000 Link/Act, 100/10 Link/Act per port
Dimensions	: 217mm x 135mm x 43.5mm (W x D x H)
Weight	: 1.1kg
Power Requirement	: 100 - 240VAC, 50 – 60Hz, Auto-sensing
Power Consumption	: 8.7 watts / 27.31 BTU
Temperature	: 0~50 degree C
Humidity Operating	: 5~95% (non-condensing)

Layer 2 Function

Management Interface	: Web Browser, SNMPv1, v2cmonitor and SNMP Trap
Port Configuration	: Port disable/enable. Auto-negotiation 10/100/1000Mbps full and half duplex mode selection. Flow Control disable / enable. Bandwidth control on each port.
VLAN	: Port-Based / 802.1Q Tagged Based VLAN, Up to 64 VLAN groups
Link Aggregation	: Supports 4 groups of 8-Port trunk, IEEE 802.3ad LACP
QoS	: Traffic classification based on 802.1p priority, DSCP field in IP Packet
IGMP Snooping	: IGMP (v1/v2) Snooping, up to 64 multicast groups
SNMP MIBs	: RFC-1213 MIB-2 RFC-1573-Interface MIB RFC-2819 RMON MIB(Group 1)

Standards Conformance

Regulation Compliance	: FCC Part 15 Class A, CE
Standards Compliance	: IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab Gigabit 1000Base-T IEEE 802.3z Gigabit 1000Base-SX/LX IEEE 802.3x Flow Control

IEEE802.3adPorttrunk with LACP
IEEE 802.1d Spanning tree protocol
IEEE 802.1w Rapid spanning tree protocol
IEEE 802.1p Class of service
IEEE 802.1Q VLAN Tagging
IEEE 802.1x Port Authentication Network Control

Network Media

: 10Base-T – UTP/STP category 3, 4 or 5 cable
100Base-TX – UTP/STP category 5 cable
1000Base-T – UTP/STP category 5e/6 cable
1000Base-SX
- 62.5/125µm multi-mode fiber optic cable, up to220m
- 50/125µm multi-mode fiber optic cable, up to550m
1000Base-LX- 9/125µm single-mode fiber optic cable, up to120km