Always....Simple

JSH2402GBM

24+2 Combo Port Mixed Giga Ethernet SNMP Switch

Picture for reference

Introduction

The 24+2 Combo Port Mixed Giga Ethernet SNMP Switch is ideal for medium to large Internet bar or enterprise, and it is fully complies with IEEE802.3/802.3u/802.3z Ethernet standards. It provides 24 10/100Mbps plus 2 Gigabits port (support auto copper/fiber switching). It also provides powerful management functions, including 802.1p (QoS), DiffServ (QoS), IGMP Snooping, 802.1w (Rapid Spanning Tree), Link Aggregation, 802.1q (VLANs), 802.1x and more. It's a perfect way to extend your network structure.

Main Features

- 24 10/100 Mbps Ethernet ports, 2 10/100/1000 Mbps Ethernet ports supporting both copper and SFP connections.
- 6.8Gbps switching fabric capacity
- IEEE 802.3x compliant Flow Control support for full duplex.
- Fully compliant with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, and IEEE 802.3ab 1000BASE-T , IEEE 802.3z 1000Base-LX/SX
- DB-9 Console port for console managed
- 8K MAC address table, automatic source address learning and ageing
- 4Mbit embedded memory for packet buffers
- High performance of Store-and-Forward architecture, broadcast storm control and runt / CRC filtering eliminate erroneous packets to optimize the network bandwidth
- Support multiple VLANs
- Supports Link Aggregation
- Supports Spanning Tree Protocol
- Supports VLAN mapping
- Port Mirroring to monitor the incoming or outgoing traffic on a particular port
- Supports flow mirroring
- Supports VLAN mirror
- Supports LLDP(Link Layer Discovery Protocol)
- Supports DLDP (Device Link Detection Protocol)

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- Supports 8 priority queues on all switch ports
- Supports DHCP Snooping, Relay and option 82
- Supports IGMP snooping v1 and v2 and v3
- Supports Multicast VLAN Registration
- Supports powerful security functions like ACL, dynamic ARP inspection and more
- Supports SNMP v1, v2c, and v3 switch management
- Supports SSH v1/v2 switch management

Standards

- IEEE 802.3u 100BASE –TX
- IEEE 802.3 10BASE –T
- IEEE 802.3x Flow Control
- IEEE 802.3ab 1000BASE-T
- IEEE 802.3z 1000Base-LX/SX

SPEC

Hardware Specification

- Ports
  - 24-Port 10/100Mbps Fast Ethernet ports
  - 2 10/100/1000Mbps TP and SFP shared combo interfaces, SFP(Mini-GBIC) supports 1000 Full mode
- RS-232 console interface for basic management and setup
- LED
  - PWR
  - SYS
  - Link/Active
  - Speed
- Cabling Type
  - UTP CAT3 or up for copper port
  - Single-mode or Multi-mode fiber (with SFP connect) for fiber port
- Power
  - 100-240 V AC/50-60Hz
- DRAM/FLASH
  - 8M/1M

Software Specification

Layer2 Features

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z Gigabit Ethernet standard
- Supports Auto-negotiation and Full-Duplex / Half-Duplex modes for all

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0Base-T/100Base-TX and 1000Base-T ports.

- Auto-MDI/MDI-X detection for each RJ-45 port Prevents packet loss Flow Control
  - IEEE 802.3x PAUSE frame Flow Control for Full-Duplex mode
  - Back-Pressure Flow Control in Half-Duplex mode
- High performance of Store-and-Forward architecture, broadcast storm control and runt / CRC filtering eliminate erroneous packets to optimize the network bandwidth
- 8K MAC address table, automatic source address learning and ageing
- 4Mbit embedded memory for packet buffers
- Support VLANs
  - IEEE 802.1Q Tag-based VLAN
  - Q-in-Q tunneling
  - Voice VLAN
  - GVRP protocol for VLAN Management
  - Up to 4K VLANs groups, out of 4049 VLAN IDs
- Supports Link Aggregation
  - Up to 14 Trunk groups
  - Up to 8 ports per trunk group
  - IEEE 802.3ad LACP (Link Aggregation Control Protocol)
  - Cisco ether-Channel (Static Trunk)
- Supports Spanning Tree Protocol
  - STP, IEEE 802.1D (Classic Spanning Tree Protocol)
  - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
  - MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol, spanning tree by VLAN)
- Supports VLAN mapping
- Port Mirroring to monitor the incoming or outgoing traffic on a particular port
- Supports flow mirroring
- Supports VLAN mirror
- Supports LLDP(Link Layer Discovery Protocol)
- Supports DLDP (Device Link Detection Protocol)

Quality of service

- 8 priority queues on all switch ports
  - Traffic classification:
  - IEEE 802.1p CoS
  - DSCP Precedence
- Strict priority and Weighted Round Robin (WRR) and SP+WRR CoS policies
- Supports QoS and Out bandwidth control on each port
- Traffic-policing policies on the switch port

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DHCP

- Supports DHCP Snooping
- Supports DHCP Relay
- Supports DHCP option 82

Multicast

- Supports IGMP Snooping v1 and v2 and v3
  - Supports multicast load balancing on trunk interfaces.
  - Limits the rate of multicast packets and collects traffic statistics on interfaces.
  - Supports dropping unknown multicast packets.
  - Supports outbound packet filtering for known multicast packets
  - Supports manual configuration of multicast MAC addresses
- Multicast VLAN Registration (MVR)

Security

- IEEE 802.1x Port-Based / MAC-Based Authentication
- RADIUS / TACACS+ users access authentication
- IP-Based Access Control List (ACL)
- MAC-Based Access Control List (ACL)
- Port Security
- Supports ip source guard
- Supports dynamic ARP inspection
- Supports the binding of the IP address, MAC address, and vlan, and interface
- Supports CPU protection
- Supports Loopback detection on ports

Management

- Switch Management Interface
  - Console / Telnet Command Line Interface
  - Web switch management
  - SNMP v1, v2c, and v3 switch management
  - SSH v1/v2 switch management
- Built-in Trivial File Transfer Protocol (TFTP) client
- Firmware upload / download via TFTP and web
- Configuration upload / download via TFTP and web
- NTP (Network Time Protocol)
- Supports VCT(Virtual Cable Test)
- Message / event / error / trap logs
- Private Enterprise MIB
- Four RMON groups 1, 2, 3, 9 (history, statistics, alarms, and events)
- Ping function

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Environment

- Dimension
  - 432 mm(L)* 250 mm(W)*44 mm(H)
- Operating Temperature
  - 0° to 50° C
- Storage Temperature
  - -20° to 70° C
- Operating Humidity
  - 5% to 90 % non-condensing
- Storage Humidity
  - 5% to 90% non-condensing

Certification

FCC Class B, CE

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