

Signamax 065-7850 24-port Gigabit L2 Managed Switch meets all IEEE 802.3/u/x/z Gigabit, Fast Ethernet specifications. Included 8-Port 10/100/1000Mbps UTP and 16-Port Gigabit SFP Fiber management Ethernet switch. The switch can be managed through RS-232 serial port, or through Ethernet port using CLI or Web-based management unit, associated with SNMP agent. With the SNMP agent, the network administrator can login the switch to monitor, configure and control each port's activity in a friendly way.

The overall network management is enhanced and the network efficiency is also improved to accommodate high bandwidth applications. In addition, the switch features comprehensive and useful function such as QoS (Quality of Service), Spanning Tree, VLAN, Port Trunking, Bandwidth Control, Port Security, SNMP/RMON, IGMP Snooping capability and Illegal Access Report via the intelligent software. It is suitable for both metro-LAN and office application.

24-port Gigabit L2 Managed Switch

FEATURES

- **QoS support layer 4 classification**

The switch supports not only Layer 2 802.1p Priority Queue control, but also supports programmable higher layer classification and prioritization to enable enhanced Quality of Service (QoS) support for real time applications base on information taken from Layer 2 to Layer 4, such as VoIP.

- **Port Mirroring Helps Supervisor Monitoring Network**

Port mirroring copies traffic from a specific port to a target port. This mechanism helps track network errors or abnormal packet transmission without interrupting the flow of data.

- **Q-in-Q VLAN for performance & security**

The VLAN feature in the switch offers the benefits of both security and performance. VLAN is used to isolate traffic between different users and thus provides better security. Limiting the broadcast traffic to within the same VLAN broadcast domain also enhances performance. VLAN support enabling advanced techniques such as „802.1Q-in-1Q“ to be deployed.

- **802.3ad LACP for Bandwidth Aggregation**

The Gigabit ports can be combined together to create a multi-link load-sharing trunk. Up to 12 Gigabit ports can be set up per trunk for bandwidth up to 24Gbps, all traffic is aggregated based on MAC addresses, thus balancing the traffic load. The switch supports up to 8 trunking groups. Port trunks are useful for switch-to-switch cascading, providing very high full-duplex speeds.

- **802.1x Access Control Improve Network Security**

802.1x features enable user authentication for each network access attempt. Port security features allow you to limit the number of MAC addresses per port in order to control the number of stations for each port. Static MAC addresses can be defined for each port to ensure only registered machines are allowed to access. By enabling both of these features, you can establish an access mechanism based on user and machine identities, as well as control the number of access stations.

- **802.1d Compatible & 802.1w Rapid Spanning Tree**

For mission critical environments with multiple switches supporting STP, you can configure the switches with a redundant backup bridge path, so transmission and reception of packets can be guaranteed in event of any fail-over switch on the network.

- **Broadcast/Multicast Storm Control**

To limit too many broadcast/multicast flooding in the network, broadcast/multicast storm control is used to restrict excess traffic. Threshold values are available to control the rate limit for each port. Packets are discarded if the count exceeds the configured upper threshold.

24-port Gigabit L2 Managed Switch

| PART NO. | DESCRIPTION |
|----------|-----------------------------------|
| 065-7850 | 24-port Gigabit L2 Managed Switch |

SPECIFICATIONS

STANDARD COMPLIANCE

- IEEE 802.3 10Base-T Ethernet (twisted-pair copper)
- IEEE 802.3u 100Base-TX Ethernet (twisted-pair copper)
- IEEE 802.3ab 1000Base-T Ethernet (twisted-pair copper)
- IEEE 802.3z 1000Base-SX/LX Ethernet
- IEEE 802.3x flow control capability
- ANSI/IEEE 802.3 auto-negotiation
- IEEE 802.1q VLAN

ROHS COMPLIANCE

PERFORMANCE

Switching capacity:

- 24 Gigabit Ethernet ports with non-blocking wire speed performance
- 8 K MAC addresses
- 400KB on-chip frame buffer.
- Supports Jumbo frame support, up to 9K
- Broadcast/Multicast Storm Suppression
- Port Mirroring

VSM (Virtual Stacking Management)

- Supports 16 devices stacking
- Multiple switches can be managed via one IP address, just like software stacking
- Low cost and easily to establish network environment, not extra hardware require.
- Not center on the physical location of wiring closets

VLAN

- Port-based VLAN
- IEEE802.1q tag-based VLAN
- Q-in-Q is an efficient method for enabling Subscriber Aggregation

Qos

- Supports Layer 4 TCP/UDP Port and ToS Classification
- Supports 802.1p QoS with two level priority queue
- Supports priority in a Q-in-Q tag

Bandwidth Control

- Supports Ingress, Non-unicast and Egress Bandwidth rating management with a resolution of 1Mbps

PROTOCOL

LACP

- Port trunking with 8 trunking group
- Up to 12 ports for each group

GVRP/GARP

- 802.1q with GVRP/ GARP

Multicasting

- Supports IGMP snooping including active and passive mode

STP/RSTP

- 802.1d/1w

NETWORK SECURITY

- 802.1x access control
- Management Access Policy Control
- Snmpv1,v2c Network Management
- MIB Files: Interface MIB, Address Translation MIB, Statistics Group 1, History Group 2, Alarm Group 3, Event Group 9, IP MIB, ICMP MIB, TCP MIB, UDP MIB, SNMP MIB, FC 1213 MIB (MIB-II), RFC 1757 RMON MIB, RFC 1493 Bridge MIB, RFC 1643 Ethernet MIB, Enterprise MIB