



## SNMP-GSH2416

### 8+16 Pure Gigabit SNMP Managed Switch

The SNMP-GSH 2416 24-port Gigabit L2 Managed Switch is a standard switch that meets all IEEE 802.3/u/x/z Gigabit, Fast Ethernet specifications. The switch 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 via directly connection, 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



#### 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 based 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 Port Trunk 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.

\* You must use our MGB-1000SX or MGB-1000LX MINIGBIC Transceiver with this switch.



## Specification

### Standard compliance:

- IEEE 802.3x FlowControl capability
- IEEE 802.1q VLAN
- IEEE 802.1p

### Switching capacity:

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

### VLAN :

- Port-base VLAN
- IEEE802.1q tag-base VLAN, up to 256 active VLANs
- Q-in-Q is an efficient method for enabling Subscriber Aggregation

### VSM(Virtual Stacking Management):

- Support 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

### 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 bandwidth rating per port ingress and egress rate limit 1000Mbps with 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 (ACL)

### SNMPv1,v2c Network Management

### LED:

- Power LED : Green color
- Activity LED: Green color
- Port 1-24 : Green / Amber Color

### Voltage:

- 100~240 V AC, AC Line

### Consumption: 50W

### Operating environment:

- **Ambient Temperature:**  
0 degree C~50 degree C
- **Humidity :** 5% to 90%

### Dimensions:

- 44(H) 442(W) 209(D) mm

### EMI:

- Comply with FCC Part 15 Class A & CE Mark Approval

## Ordering Information

**AirLive SNMP-GSH2416 8+16 Pure Gigabit SNMP Managed Switch**

## Optional Accessories

**MGB-1000SX 1000Base-SX MiniGBIC Fiber Gigabit Transceiver, LC connector**  
**MGB-1000LX 1000Base-LX MiniGBIC Fiber Gigabit Transceiver, LC connector**