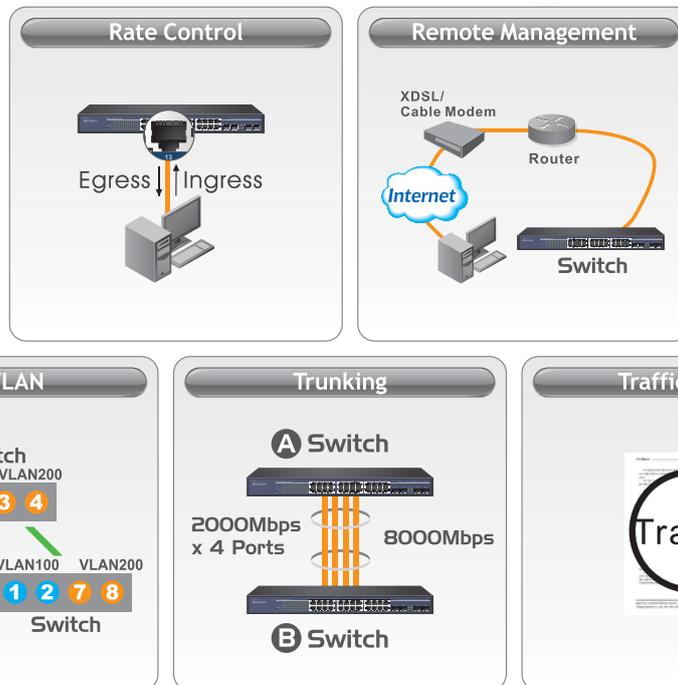# Ether-GSH2404W

24+4 Pure Gigabit Web Managed Switch

With the introduction of the Ether-GSH2404W, AirLive has developed the ideal solution for mid-large enterprise, campus, internet cafe and FTTH solution. The Ether-GSH2404W support plug & play simplicity with high performance and reliability, With 24 Gigabit Copper ports plus 4 combo SFP(Mini-GBIC) Fiber slots.

Rate Control

Egress ⇅ Ingress

Remote Management

XDSL/
Cable Modem

Router

Internet

Switch

TAG VLAN

Switch
VLAN100   VLAN200
1 2 3 4

VLAN100   VLAN200   VLAN100   VLAN200
2 3 5 6   1 2 7 8
Switch   Switch

Trunking

Ⓐ Switch

2000Mbps
x 4 Ports   8000Mbps

Ⓑ Switch

Traffic Status

Traffic

4 combo SFP (Mini-GBIC) Fiber slots

The AirLive Ether-GSH2404W is a 24-Port 10/100/1000BASE-T Web Managed Switch with 4 combo ports supporting SFP transceivers. The SFP transceivers can support 1000Base LX/SX Mini-GBIC fiber module. The 4 combo ports are port 21~ port24. For example: when you use the RJ-45 port21, then the SFP slot port21 will not available to use, and vice versa.

High Performance Wire-Speed Architecture

The Ether-GSH2404W delivers superior performance on 48Gbps switching capacity and full duplex wire-speed forwarding; this is an ideal solution for the most demanding bandwidth intensive applications. With support for 8,000 MAC addresses, the Ether-GSH2404W can be used as a cost-effective Gigabit solution or a high performance backbone aggregation device.

Tag Based VLAN

Unlike ordinary web management switch that has only rudimentary port settings function. The Ether-GSH2404W equipped with some very useful and advance management features. Tag based VLAN allow administrators to configure VLAN groups across different switches. Private VID function is supported to allow switches to write tag information into the packet. Defining complex VLAN function across the entire network becomes much easier.

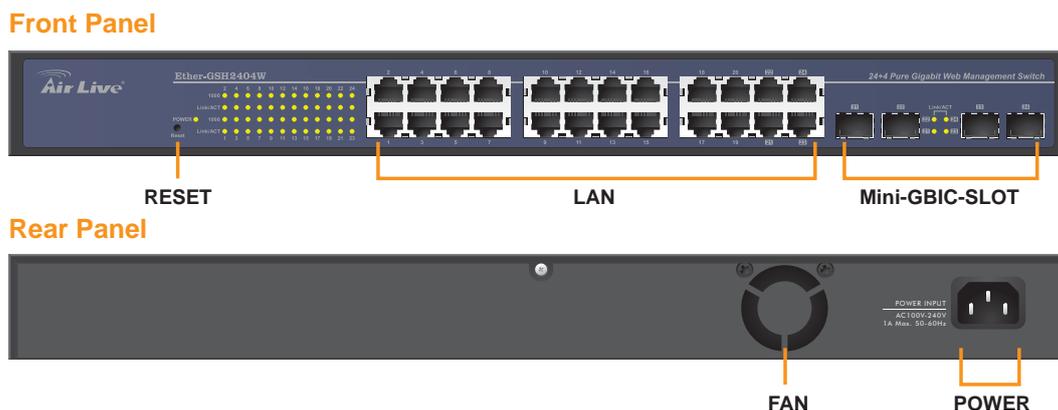## Rate Control, Trunking, Broadcast Storm filter

The rate control allows limiting the speed of each port form 128kbyte to 3968kbps (32 levels). This is very useful for internet café or FTTH operator, the broadcast storm control prevents one single station flood the network with broadcast packet.

Port Trunk with LACP

Port based Trunking allow combining several ports to multiply the speed of one link. The Ether-2404W support up to 24 ports or 8 groups for trunking. The priority allows each port have 4 priority queues. The Static MAC address table function allows MIS to manually entering MAC address in a certain port. Finally port mirror is provided to allow MIS to sniff the packet of each port for diagnostic purpose.

Remote Management and firmware upgrade via Web Browser

The Ether-GSH2404W allows user to configure the switch or firmware upgrade through local LAN or over the Internet form web browser.

Front Panel

RESET   **LAN**   **Mini-GBIC-SLOT**

Rear Panel

FAN   **POWER**

Specifications

Hardware
- 24 x 10/100/1000Base-T
- 4 x Mini-GBIC combo slots for optional 1000Base-SXor 1000Base-LX modules
- Auto MDI/MDI-X to eliminate needs for cross-over cabling
- 500k bytes memory buffer
- 8,000 MAC entries
- Jumbo packet: support 10kbytes Jumbo packet size

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- Back-plane: 48Gbps
- LEDs: Per RJ-45 port:100/1000(green), Link/
  Activity(green)
  Per mini-GBIC : Link/Activity(green)
  Per unit: Power
- 19" inch rack mountable

Standard Compliance
- IEEE 802.3   10Base-T Ethernet
- IEEE 802.3u   100Base-TX Fast Ethernet
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z   Gigabit Fiber
- IEEE 802.3x   Flow Control and Back Pressure
- IEEE 802.1d   Spanning Tree
- IEEE802.1w   Rapid Spanning Tree Protocol
- IEEE 802.3ad Port trunk with LACP
- IEEE 802.1p   Class of Service
- IEEE 802.1Q   VLAN Tag
- IEEE 802.1x   Port Based Authentication

Protocol
- CSMA/CD**Management Interface**
- Web browser
- Web firmware upgrade
- TFTP firmware upgrade
- Load Factory default

Software Functions
- Flow control for both half- or full-duplex
  operation
- Broadcast storm control
- VLAN : support port base, Tag base VLAN
  and VLAN entry up to 255, VID up to 4094
- Allow user to configure for each port, speed,
  duplex mode and flow control
- Quality of Service: Support port base, Tag
  base, IPv4 Different Service
- Class of Service: Per port support 4 priority
  queues
- Spanning Tree: Support IEEE802.1w Rapid

  Spanning Tree Protocol and compatible with
  IEEE 802.1d
- IGMP: Support IGMP Snooping v1, v2
- Port-Trunking (the trunk group up to 8 and
  maximum trunk port member up to 24)
- Port Mirror Function: Support RX port mirror
- IGMP: Support IGMP Snooping v1, v2
- Bandwidth Control: Per port from 128kbps to
  3968kbps (32 levels)
- Broadcast Storm: Disable, 5%, 10%, 20%

LED
- Per RJ-45 port: 100/1000(green),
  Link/Activity(green)
- Per MINI-GBIC: Link/Activity(green)

Regulation
- FCC Class A
- CE mark

Dimension
- 440mm (W) X 161mm (D) X 44mm (H)

Power
- Built-in Power Supply
- Input: 100-240VAC, 50/60Hz, 1A(MAX.)
- Consumption: 17.9 Watts (max.)

Temperature
- Operating : 0 ~ 45 ℃

Humidity
- Operating : 10% ~ 90% (Non-condensing)

Ordering Information:

Ether-GSH2404W   24+4 port Pure Gigabit WEB Management Switch

Optional Accessories:

MGB-SX   1000Base-SX MiniGBIC Transceiver, LC connector
MGB-LX-10   1000Base-LX MiniGBIC Transceiver, LC connector, 10km