

L2+ Managed Gigabit Switch

28-Port Gigabit including 4 SFP ports

SNMP-GSH2404M

airlive®



IGMP Ring
Network

VLAN Policy
Voice | Data)

DHCP Snooping

All Port
Gigabit

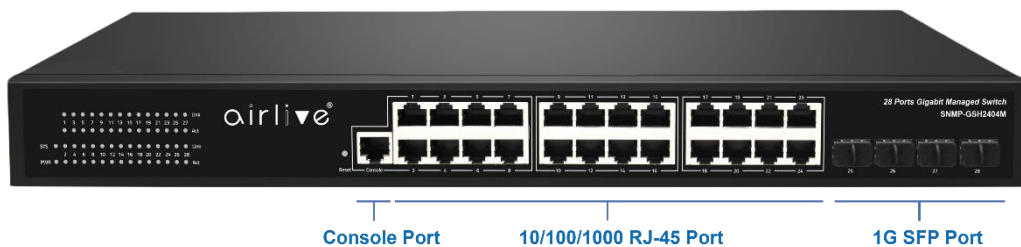
Full Managed
SNMP

SFP Fiber
Long Distance

Overview

SNMP managed Switch with Advanced VLAN Policy for | Voice | Data

The AirLive SNMP-GSH2404M is an L2+ managed 28-port Gigabit switch including 24 RJ-45 ports and 4 Gigabit SFP ports. It supports comprehensive SNMP management function such as IGMP EAPS Ring Network, VLAN Division, Port aggregation, QoS port mirroring, bandwidth control. Providing VLAN Division Policy function for setting higher priority for Voice, or data that prevents package loss or lags. Furthermore, All port runs at Gigabit high speed; the MAC address self-learning function ensures error free data transmission; the store and forward mode prevents the damaged packets from flooding in the network; the flow control function can prevent the impact of a large amount of instantaneous data on the network; the port supports MDI/MDIX auto flip function, non blocking line speed transmission of all ports.



Features

- All 28-port, each port delivers Gigabit high speed
- Extend the network further with 4 SFP slots that accept fiber transceivers and go beyond the limits of Ethernet
- IPv6 Management
- Support L2+ SNMP and WEB Smart management function, including DHCP Snooping, VLAN, IGMP, QoS, Spanning Tree, MAC Binding and Bandwidth Control
- VLAN property and Voice VLAN support for high priority transmission
- Clear Statuses display including traffic, CPU, Memory, per-port status
- Web-UI for easy management; CLI and Command Script for advance setting; SNMP used for popular network tools management.

Major Specifications

- 24 x 10/100/1000 RJ-45
- 4 x 1000 SFP
- Lighting Surge ESD protection: 6KV / Port ESD Static Protection: 15KV /Switch
- L2+ SNMP v1/2/3, Trap
- Authentication: 802.1x, AAA, TACACS+
- SNMP, WEB, CLI, SSH, Telnet, RMON
- VLAN Division (Surveillance, Voice, MED Conference, Data)
- ERPS Ring Supported
- DHCP Snooping prevents unauthorized router installed
- Support 802.3az Energy Efficient Ethernet
- Panel indicator monitoring the status and help failure analysis
- Fan-less design, Natural Cooling, 1U Rack Mount

L2+ Managed Gigabit Switch

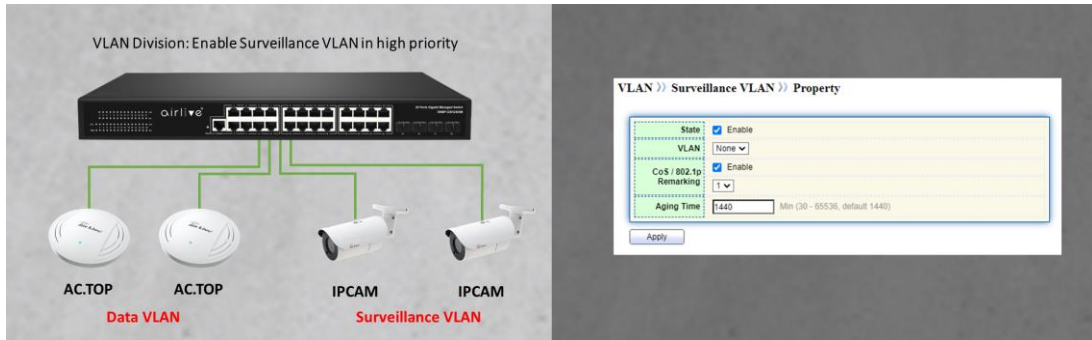
28-Port Gigabit including 4 SFP ports



SNMP-GSH2404M

Automatic Surveillance VLAN Support

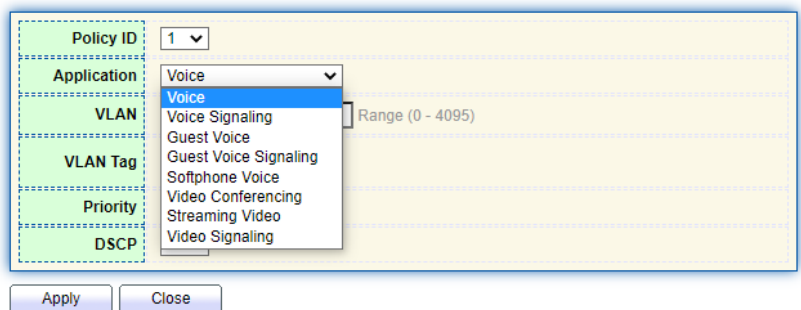
Choose Surveillance Mode on the Web Interface for a smooth surveillance experience with user-friendly features. Your security devices are detected automatically and segregated into a dedicated Auto Surveillance Virtual LAN, ensuring secure and efficient handling of video surveillance data. Utilize Surveillance Mode in the Web UI for easy and effortless surveillance network management. Features are designed for user convenience and the system will automatically detect your security devices and allocate them into a separate Auto Surveillance VLAN for secure and efficient handling of video surveillance traffic.



VLAN Policy for Video Conferencing/Voice/Data

A VLAN policy for video conferencing, voice, and data separates network traffic for optimized performance and security. This allows for efficient management of different types of network traffic, such as video conferencing, voice communications, and data transfers, to ensure smooth and secure network operations.

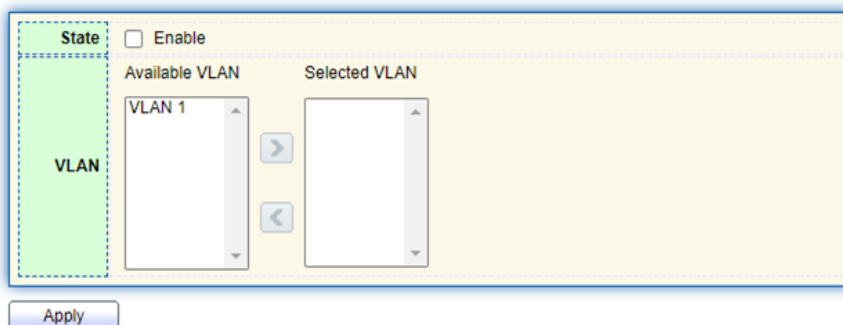
Add MED Network Policy



DHCP Snooping Support

DHCP snooping is a network security feature that helps prevent malicious attacks by monitoring and filtering untrusted DHCP messages. It verifies the DHCP packets received on a network and only allows those from trusted sources, such as a DHCP server, to be processed, protecting against rogue DHCP servers that can potentially assign incorrect IP addresses to devices on the network.

Security >> DHCP Snooping >> Property



RMON Statistics Support

RMON (Remote Monitoring) statistics support is a feature in networking equipment that allows for remote monitoring and management of network performance. It provides information on network traffic, such as packet and byte counts, and allows network administrators to monitor network performance and troubleshoot network issues from a remote location. RMON statistics help provide detailed network visibility and are an important tool for network management and optimization.

Management >> RMON >> Statistics

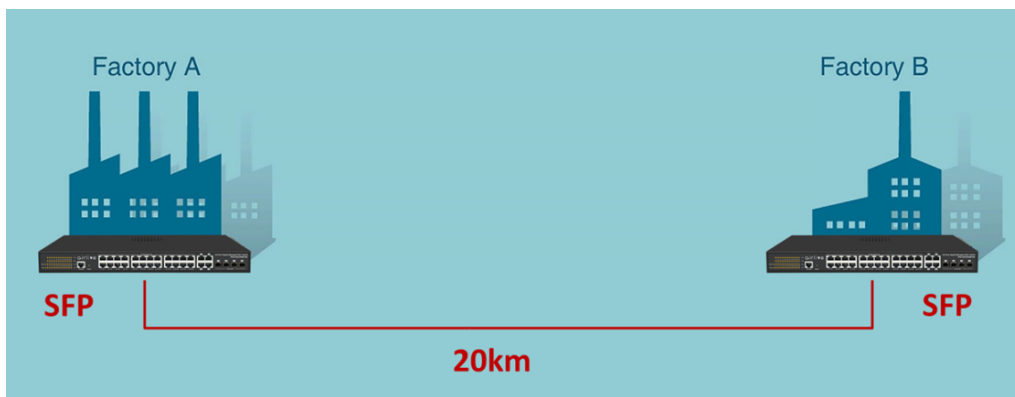
Statistics Table

Refresh Rate sec

Entry	Port	Bytes Received	Drop Events	Packets Received	Broadcast Packets	Multicast Packets	CRC & Align Errors	Undersize Packets	Oversize Packets	Fragments	Jabbers	Collisions	Frames of 64 Bytes
<input type="checkbox"/>	2 GE2	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	3 GE3	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	4 GE4	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	5 GE5	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	6 GE6	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	7 GE7	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	8 GE8	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	9 GE9	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	10 GE10	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	11 GE11	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	12 GE12	0	0	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/>	13 GE13	0	0	0	0	0	0	0	0	0	0	0	0

Fiber for Long Distance

Fiber optic technology is used for long distance communication due to its high bandwidth capacity and immunity to electromagnetic interference. Fiber optic cables are made of thin glass or plastic fibers that carry light signals over long distances, providing fast and reliable data transmission. This makes fiber optics ideal for applications where large amounts of data need to be transmitted over long distances, such as in long-haul telecommunications and data center networks.



Model	AirLive SNMP-GSH2404M
<p>Hardware</p> <ul style="list-style-type: none"> • Device Interface: 24 x 10/100/1000 RJ-45 4 x ports Gigabit SFP 28-port totally 1 x RJ45 console port • Standard IEEE802.3u 100Base-TX / 100Base-FX IEEE802.3ab Gigabit 1000Base-T IEEE802.3z Gigabit SX/LX (optical fiber) IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Standard method for performing link aggregation IEEE802.1d Spanning Tree (STP) IEEE802.1w Rapid Spanning Tree (RSTP) IEEE802.1s Multiple Spanning Tree (MSTP) IEEE802.1p Class of Service (QoS / CoS) traffic Prioritization (Multicast filtering function) IEEE802.1Q VLAN Bridge Operation IEEE802.1x Client/Server Access control and Authentication IEEE802.3az Energy Efficient Ethernet IEEE802.1ab LLDP/LLDP-MED Device Link Layer Discovery Protocol • LED Indicators: PWR (power supply), SYS(System), Link, ACT. • Lighting Surge Protection: 6KV (general mode), 4KV (differential mode), ESD15KV • Mechanical Solid metal 19" 1U rack-mountable, fan-less <p>Power</p> <ul style="list-style-type: none"> • Power Input: AC100~240VAC, Total power 36W <p>Switch Architecture Performance</p> <ul style="list-style-type: none"> • Switching architecture: Store and Forward Switch Capacity: Back-plan up to 56Gbps Switch packets Capacity; 41.66Mpps MAC Address: 8K Jumbo Frames: 9.6Kbytes Packet Buffer: 4Mb Flash Memory: 16MB DDR SDRAM: 128MB <p>Optical characteristics</p> <ul style="list-style-type: none"> Multi mode: 850/1310nm (0-2KM) Single mode: 1310/1550/1490nm (0-120KM) 	<p>L2 Management Function</p> <ul style="list-style-type: none"> • Port Management: Enable / Disable Port Speed, Duplex, MTU setting Flow-Control Port Information Check • Port Mirroring: Support both side-way port mirroring • Port Speed Limit: Port-based input/output bandwidth management • Port Isolation: Support the downlink port isolation, and able to communicate with the uplink port • Storm Suppression: Support unknown unicast, multicast, unknown multicast Broadcast type storm suppression Storm suppression based on bandwidth regulation and storm filtering • Link Aggregation: Support static manual aggregation Support LACP dynamic aggregation • VLAN: Access, Trunk, Hybrid Support VLAN division based on port, protocol, and MAC address, VLAN tunnel. Support Generic GVRP dynamic VLAN registration Voice VLAN • MAC: Support static addition, deletion MAC address learning limit Dynamic aging time setting • Spanning Tree Support STP 802.1d Spanning Tree protocol Support RSTP 802.1w Spanning Tree protocol Support MSTP 802.1s Spanning Tree protocol • ERPS: Support Main Ring • Multicast: Support Static addition, deletion Support IGMP-Snooping Support MLD-Snooping Support v1/2/3 dynamic multicast monitor • DDM: Support SFP/SFP+ DDM • Layer 3 Switching: IPv4 Static Routing IPv6 Static Routing ARP

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Model	AirLive SNMP-GSH2404M
<p>L2 Management Extension Function</p> <ul style="list-style-type: none"> • ACL (Access Control List): Based on source MAC, destination MAC, Protocol type, source IP, destination IP, L4 port • QoS: Based on 802.1p (CoS) classification Based on DSCP Classification Classification based on source IP, destination IP and port number Support SP, WRR scheduling strategy Support flow rate limit CAR • LLDP Discovery: Support LLDP discovery protocol • User Settings: ADD/Delete users • Log: User login, operation, status, events • Anti-attack (Security): DOS defense (port-based) Support CPU protection and limits the rate of sending CPU packets ARP binding (IP, MAC, PORT binding) • Certification Authentication: Support 802.1x port authentication Support AAA authentication Support TACACS+ authentication • Network diagnosis: Support Ping, Telnet, Trace • System Management: Device reset, configuration save/restore, upgrade management, time setting, etc. <p>System Management</p> <ul style="list-style-type: none"> • CLI: Support serial port command line management • SSH: Support SSHv1/2 remote management • Telnet: Support Telnet remote management • WEB: Support Layer2 setting, layer2 and layer3 monitor • SNMP: SNMP V1/V2/V3; support trap (ColdStart, Warmstart, LinkDown, LinkUp) • RMON (remotely management) Support RMON v1 • Other Functions Support DHCP Snooping, Option 82, DHCP Server Support dynamic ARP detection Support TACACS+ certification Support DNS certification Support Port security settings Support MVR protocol Support cable detection VCT function Support UDLD protocol 	<p>Environment</p> <ul style="list-style-type: none"> • Operating Temperature: -10°C to +50°C • Storage Temperature: -40°C to +70°C • Working Humidity: 10%~90%, non-condensing • Storage Humidity: 5%~90%, non-condensing <p>Standard package of switch</p> <ul style="list-style-type: none"> • Product size: • 44 x 20.4 x 4.4 cm(L*W*H) • Package size: • 50 x 29 x 8.5 cm(L*W*H) • Package Weight: • N.W: 2.45kg; G.W: 3.06kg • Package content: 1 x Switch, 1 x Power cable 1 x Mounting bracket 1-pair <p>Standard carton package</p> <ul style="list-style-type: none"> • Quantity: 5 pcs / 1 carton • Dimensions 52 x 44.5 x 31 cm • Weight 16.3kg <p>Ordering Information</p> <ul style="list-style-type: none"> • Model: SNMP-GSH2404M • Name: L2+ Managed Gigabit Switch, 28 Ports including 4 port SFP Fiber

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