

L2+ Managed Gigabit switch

10-Port Gigabit including 2 SFP ports

SNMP-GSH802M

airlive®



IGMP Ring
Network

All Port
Gigabit

VLAN Policy
(Video Conferencing |
Surveillance | Voice | Data)

Full Managed
SNMP

DHCP Snooping

SFP Fiber
Long Distance

Overview

SNMP managed Switch with Advanced VLAN Policy for Video Conferencing | Surveillance | Voice | Data

The AirLive SNMP-GSH802 is an L2+ managed 10-port Gigabit switch including 8 RJ-45 ports and 2 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 10-port, each port delivers Gigabit high speed
- Extend the network further with 2 SFP slots that accept fiber transceivers and go beyond the limits of Ethernet
- Support L2+ SNMP and WEB Smart management function, including DHCP Snooping, VLAN, IGMP, QoS, Spanning Tree, MAC Binding and Bandwidth Control
- Surveillance 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

- 8 x 10/100/1000 RJ-45
- 2 x 1000 SFP
- 1 x console port
- Surge Protection: General 4KV, Differential 2KV, ESD 8KV air, 6KV contact
- L2+ SNMP v1/2/3, Trap
- Authentication: 802.1x, AAA, TACACS+
- SNMP, WEB, CLI, SSH, Telnet, RMON
- VLAN Division (Surveillance, Voice, MED Conference, Data)
- DHCP Snooping prevents unauthorized router installed
- Support 802.3az Energy Efficient Ethernet
- Fan-less design

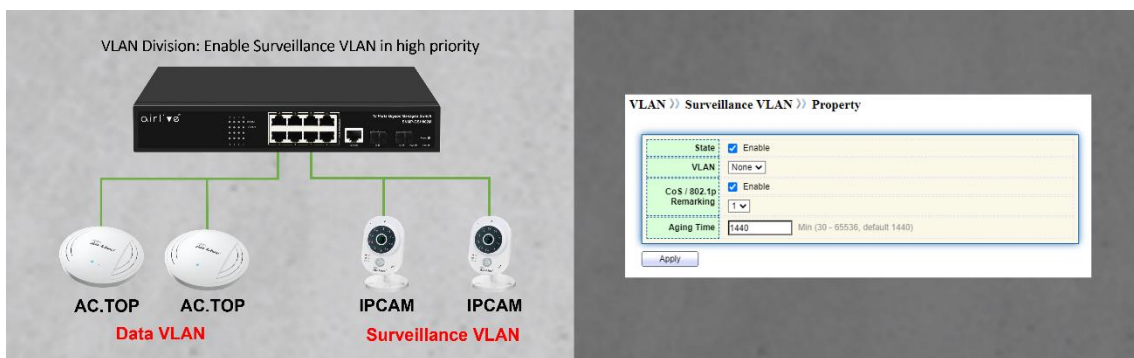
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Automatic Surveillance VLAN Support

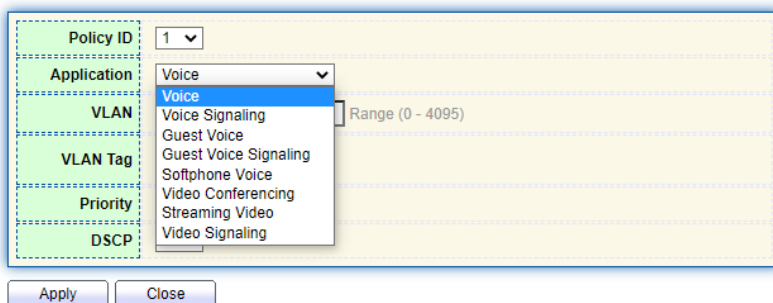
SNMP-GSH802M supports unique “VLAN division” function for setting up important VLAN group at high priority to make sure whole system’s performance and reliability. Its VLAN Division function including Surveillance VLAN, Voice VLAN, MED Network (Video Conferencing) and Data VLAN. For example, when enable Surveillance VLAN functions that ensures the quality of real-time video for monitoring and control without compromising the transmission of conventional network data.



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

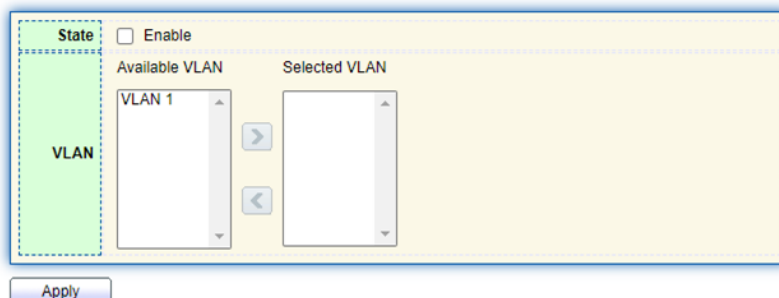
Add MED Network Policy



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



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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

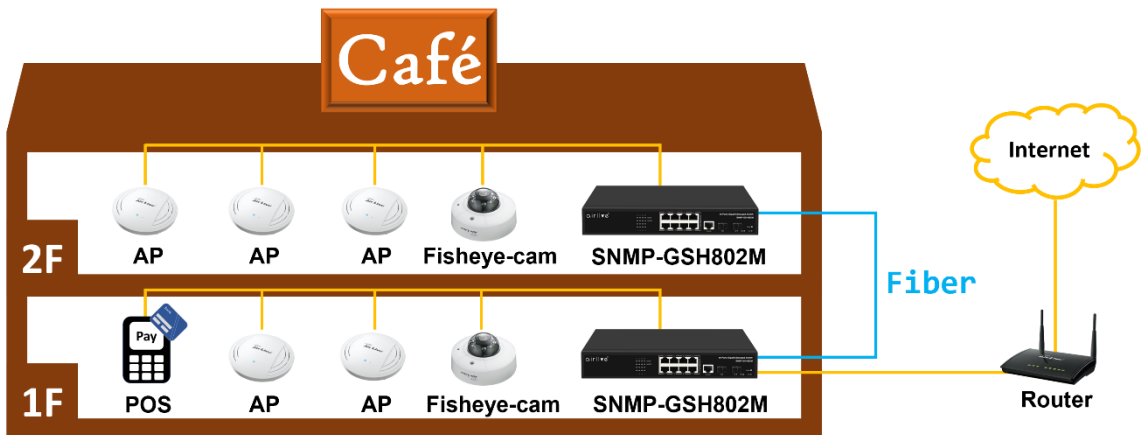
Statistics Table

Refresh Rate 0 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

Fiber for cross-floor connection or 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, data center networks cross-floor connections.



Built-in SFP for cross-floor connection

Model	AirLive SNMP-GSH802M
<p>Hardware</p> <ul style="list-style-type: none"> • Device Interface: 8 x 10/100/1000 RJ-45 2 x ports Gigabit SFP 10-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 Protocol IEEE802.3az Energy Efficient Ethernet IEEE802.1ab LLDP/LLDP-MED Device Link Layer Discovery Protocol • LED Indicators: PWR (power supply), SYS(System), 1-8 Link/Act, 9-10 Link • Lighting Surge Protection: Surge Protection: General 4KV, Differential 2KV, ESD 8KV air, 6KV contact • Mechanical Solid metal 10" 1U rack-mountable, fan-less <p>Power</p> <ul style="list-style-type: none"> • Power Input: AC100~240VAC, • Power Consumption: <24W <p>Switch Architecture Performance</p> <ul style="list-style-type: none"> • Fiber Medium Multi-mode Fiber: 850/1310nm (0-2Km) Single-mode Fiber: 1310/1550/1490nm (0-120Km) • Switching architecture: Store and Forward Switch Capacity: Back-plan up to 20Gbps Switch packets Capacity: 14.88Mpps MAC Address: 8K Jumbo Frames: 9.6Kbytes VLANs: 4096 Packet Buffer: 4Mb Flash Memory: 16MB DDR SDRAM: 128MB MTBF: 100000 	<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 Support based on IP, MAC, mixed load-balancing modes Support Maximum 8 aggregation groups • VLAN: Support 4K VLAN Access, Trunk, Hybrid Support Port-based, Protocol-Based, MAC-Base VLAN partitioning Support Generic GVRP dynamic VLAN registration Voice VLAN • MAC: Support static, dynamic, filtered, 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 Support Multi-instance, Support Aggregate interface Support BPDU protection • Multicast: Support Static addition, deletion Support IGMP-Snooping Support MLD-Snooping Support v1/2/3 dynamic multicast monitor • DDM: Support SFP DDM • Layer 3 Switching: IPv4 Static Routing IPv6 Static Routing DHCP Server

* Specification will be changed without prior notice



Model	AirLive SNMP-GSH802M
<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, LLDP with LLDP-MED extensions (IPv4 ACL, IPv6ACL, MAC ACL)• 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)• IPv6: Support IPv6 Ping, IPv6 Traceroute, IPv6 Telnet Support IPv6 SSH Support IPv6 HTTP, IPv6 HTTPS• 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 RMON1• Other Functions Support DHCP Snooping, Option 82, DHCP Server Support dynamic ARP detection 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: 26.8 x 18.1 x 4.4 cm• Package size: 31.2 x 26 x 8.4 cm• Product Weight: N.W: 1.01KGs ; G.W: 1.54KGs• Package content: 1 x Switch, 1 x Power cord, 1 x Serial cable, 1 x Mounting bracket 1-pair <p>Standard carton package</p> <ul style="list-style-type: none">• Quantity: 10 pcs / 1 carton• Dimensions 54 x 43.5 x 33.2 cm• Weight 16.4KGs <p>Ordering Information</p> <ul style="list-style-type: none">• Model: SNMP-GSH802M• Name: L2+ Managed Gigabit switch, 10 Ports including 2-port SFP Fiber

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