



APM CO., LTD

AAMS226

24-Port Managed Fast Ethernet Switch with 2GBIC Gigabit Dual Media Ports



AAMS226 is a Managed Fast Ethernet switch that supports SNMP, Web UI and CLI management interface and with 24 10/100Base-TX (RJ-45 connectors) and 2 Gigabit dual media (RJ-45/GBIC) ports.

It is a standard switch that meets all IEEE 802.3/u/x/z Gigabit, Fast Ethernet specifications.

In addition, the switch implements the QoS (Quality of Service), VLAN, Mac Filtering Policy, Port Mirror, VLAN and full L2 protocols. It has a rich feature set suitable for multimedia applications.

In this switch, Port 25,26 supports two types of media– TP and GBIC Fiber (LC,BiDi-SC...); both ports support 10/100/1000Mbps TP or 1000Mbps GBIC Fiber with auto-detected function.

1000Mbps GBIC Fiber transceiver is used for high-speed connection expansion.

Feature

• QoS with four priority queues

The QoS feature provides four internal queues to support four different classifications of traffic. High priority packet streams experience less delay inside the switch,

The AMS226 can classify the packet as one of the four priorities according to 802.

1p priority tag, DiffServ and/or I TOS, The QoS operate at full wire speed.

The actual scheduling at each egress port can be based upon a strict priority, weighted round robin or a mix of both

• Port Mirroring

This mechanism helps track network errors or abnormal packet transmission without interrupting the flow of data.

Allow ingress traffic to be monitored by a single port that is defined as mirror capture port.

The mirror capture port can be any 10/100 port, 10/100/1000 port.

Mirroring multiple ports is possible but can create congestion at the mirror capture port.

• 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.

Q-in-Q, the use of double VLAN tags is an efficient method for enabling Subscriber Aggregation. This is very useful in the MAN.



APM CO., LTD

AAMS226

- **Isolated Group provides protection for certain ports**

The isolated group feature allows certain ports to be designated as protected.

All other ports are non-isolated. Traffic between isolated group members are blocked. Traffic can only be sent from isolated group to non-isolated group.

- **Mac-based 802.ad LACP with automatic link fail-over**

Dynamic fail-over means packets will not get assigned to any trunk member port that has failed. If one of the ports were to fail, traffic will automatically get distributed to the remaining active ports.

- **802.1x Access Control improves 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 failover switch in the network.

- **2 Dual Media ports for flexible fiber connection**

Ports 25,26 dual media ports are provided for flexible fiber connection. You can select to install optional transceiver modules in these slots for short, medium or long distance fiber backbone attachment. Use of the GBIC will disable their corresponding built-in 10/100/1000Base-T connections.

- **Broadcast/Multicast/unknown-unicast Storm Control**

To Limit too many broadcast/multicast/unknown-unicast 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.



AAMS226

- **Standard compliance**

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

- **Subscriber Interface**

- 24 10/100Mbps and 2 Gigabit Ethernet ports
- Port 25,26 are Gigabit TP/SFP Fiber auto sense
- Auto-Negotiation and Auto-MDIX
- Backpressure flow control for half duplex.
- 802.3x flow control for full duplex.
- connector: 24 RJ-45 abd 2 dual media, RJ-45/SFP

- **Performance Switching capacity:**

- Non-blocking switch fabric supports up to 24FE + 2GbE ports
- 8 K MAC addresses
- 256K packet buffer and 128k control memory
- The maximum throughput is 8.8Gbps
- With 64 bytes packets throughput is 6.547Mbps
- Store and Forward port-Pair Latency is less 5 microseconds with any Ethernet packet length

- **VLAN**

- Supports SV/IVL configuration to meet your VLAN requirement
- Port-base VLAN
- IEEE802.1q tag-base VLAN, 4094 max, up to 256 active VLANs including static plus dynamic entry
- IEEE802.1q tag-base VLAN
- Flooding unknown vlan frame setting, can flood packet with some vlan
- In tag-base VLAN, supports egress/ingress packet filter
- Q-in-Q is an efficient method for enabling Subscriber Aggregation

VSM(Virtual Stacking Management)

- Up to 16 switches can be managed via Single IP
- Virtual stacking, no extra stacking hardware is required
- Distributed stacking, no physical ventral wiring closet is needed



APM CO., LTD

AAMS226

Qos

- Port Based, 802.1p, TOS and Diffserv (IPv4/IPv6) based QoS packet classification
- Supports four level priority queues to prioritize in-bound and out-bound traffic
- Supports two scheduling, WRR and Strict
- Supports priority in a Q-in-Q tag

Broadcast Storm

- Multicast/Broadcast/Unknown-Unicast Storm suppression

Port Mirroring

- Support 1:N RX port mirroring
- Supports port sniffer function with 3 modes: (TX Monitor Mode, RX Monitor Mode and TX-RX pair Monitor Mode)

Isolated Group

- Provide one group allows certain ports to be designated as protected

Restricted Group

- Can decide the direction of transmitting packets for the specific port

Rate Limit

- Ingress rate limit:
 - Port 1~24: 1K up to 100Mbps
 - Port 25,26: 1K up to 1000Mbps
- Egress rate limit:
 - Port 1~24: 1K up to 100Mbps
 - Port 25,26: 1K up to 1000Mbps

• Protocol

LACP

- 2Fast Ethernet +1 Gigabit Ethernet groups
- Per-group max 4 members
- Provides DA, SA and DA+SA Mac-based trunking with automatic link failover



APM CO., LTD

AAMS226

GVRP/GARP

-802.1q with GVRP/GARP

Multicasting

-Supports IGMP snooping including active and passive mode

STP/RSTP

-802.1d/1w/1s STP

• Network Security

-802.1x access control

-Isolated group

-restricted group

-Management Access Policy Control

-Static mac, to limit which mac addresses can pass through or not

-Mac addresses learning limit, to set up the maximum amount of mac that each port can learn

-Supports ports management turns on/off

• Snmpc1,v2c Network Management

-RFC 1213 MIB (MIB-II)

Interface MIB

Address Translatin MIB

IP MIB

ICMP MIB

TCP MIB

UDP MIB

SNMP MIB

-RFC 1757 RMON MIB

Statistics Group 1

History Group 2

Alarm Group 3

Event Group 9

-RFC 1493 Bridge MIB

-RFC 1643 Ethernet MIB

-Enterprise MIB



APM CO., LTD

AAMS226

Specification

• LED Description

	LED	Color	Function
Global	POWER	Green	- Lit when +5V power is coming up
Global	CPUACT	Green	- Lit when CPU is active
Port 1-24	LINK/ACT	Green	- Lit Green when connection with remote device is good - Blinks when any traffic is present
Port 1-24	100/10 Mbps	Green/Amber	- Lit Green when TP link on 100Mbps speed - Lit Amber when TP link on 10Mbps speed - Off when 10Mbps or no link occurs
Port 25,26	SFP/GBIC	Green	- Lit when SFP/GBIC connection with remote device is good - Blinks when any traffic is present

• Hardware Spec

Feature	Detailed Description
Voltage	100~240 VAC
Frequency	50~60 Hz
Consumption	30W
Ambient Temperature	0 to 50°C
Humidity	5% to 90%
Dimensions	44(H) x 442(W) x 209(D)mm

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>