

## SNMP-24MGB Plus

### 20 Port Fiber with 4 Port Combo Managed Switch

- 20 Port Fiber + 4 Port UTP/SFP Combo
- QoS with up to 8 Hardware Priority Queues
- Support STP, RSTP, and MSTP
- Dual Power Input for Redundancy
- Web UI Interface, Telnet, SSH
- SNMP v1, v2c, and v3 with Traps Supported
- Remote Monitoring (RMON) Supported
- IPv4/IPv6 Dual Stack

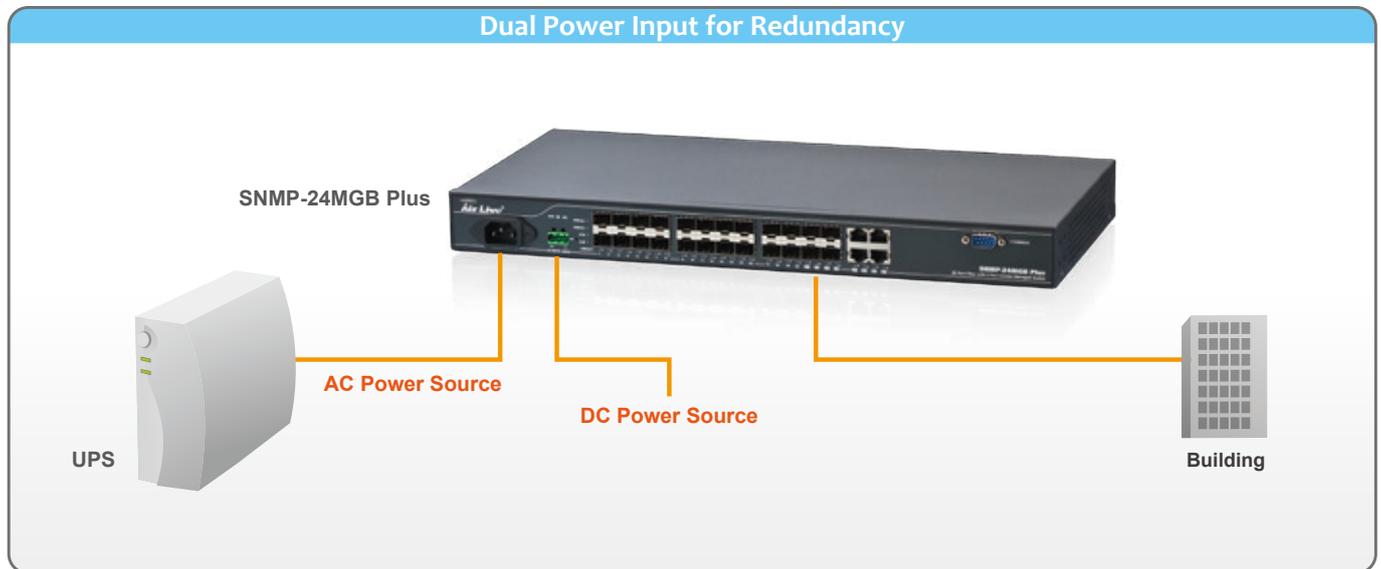


The SNMP-24MGB Plus is a 24-port Gigabit L2+Managed Switch including 4-Port Gigabit TP/SFP combo slots and 20-Port Gigabit SFP slots. This Switch can be used to build high-performance switched workgroup networks. The switch can be managed through RS-232 serial port via directly connection, or through Ethernet port using CLI or Web-based management unit, associated with SNMP agent. In addition, the switch features comprehensive and useful functions such as QoS, Spanning Tree, VLAN, Port Trunking, Bandwidth Control, Port Security, SNMP/RMON, IGMP Snooping capability via the intelligent software. It is suitable for both metro-LAN and office applications. It also support two input source, 100~240VAC and -48VDC for Power redundancy application.

### Redundancy Power Supply Supported

This switch support two power input 100~200V AC, and -48V DC. Each power input is capable of powering the entire switch. If one fails, the other power supply can keep the switch powered up seamless, so as not to interrupt the normal use of the device. The picture is an example of what a redundant power supply may look like.

The redundant power input is important for this type of switch , because this fiber switch normally work as the Core Switch for whole Internet. If the core switch is powered down, whole Internet will down.



## Quality Performance and Reliability

The SNMP-24MGB Plus provides security, performance, quality of service and other network control capabilities. In addition, The SNMP-24MGB Plus can work from -20 to 60 °C with two input source supported which increase the reliability of using the switch. It best fit for SMB or entry level enterprise solution which require to use Fiber for interconnection.

## QoS

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 base on information taken from Layer 2 to Layer 4, such as VoIP, Video and Data.

## 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

## 802.1D Compatible, 802.1w Rapid Spanning Tree and 802.1s Multiple 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.

## Specifications

### Standard

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3z Gigabit SX/LX
- IEEE802.3ab Gigabit 1000T
- IEEE802.3x Flow Control and Back pressure
- IEEE802.3ad Port trunk with LACP
- IEEE802.1d Spanning Tree Protocol
- IEEE802.1w Rapid Spanning Tree Protocol
- IEEE802.1s Multicast Spanning Tree Protocol
- IEEE802.1p Class of service
- IEEE802.1Q VLAN Tagging

### Interface

- 20 x 10/100/1000Mbps/Mini-GBIC ports,
- 4 x mini GBIC/UTP Combo ports

### Switch architecture

- Store and forward switch architecture.
- Back-plane up to 48Gbps

### Switch Capacity and forwarding rate

- Capacity in Million of Packets Per Second (mpps) :  
35.712Mpps
- Switching Capacity in Gigabits per Second (Gbps) :  
48 Gbps

### MAC address

- 32K

### Jumbo frames

- Up to 9KB

### Layer 2 Switching Feature

- Spanning Tree : STP 802.1d , RSTP 802.1w, MSTP 802.1s
- Trunking : LACP IEEE802.3ad
  - Up to 12 groups
  - Up to 4 ports per group
- VLAN : support for up to 4K VLANs simultaneously (out of 4096 VLAN ID)
  - Port-based VLAN
  - 802.1Q tag-based VLAN
  - MAC-based VLAN
  - Management VLAN
  - Private VLAN Edge (PVE)
  - Q-in-Q (double tag) VLAN

### -Voice VLAN

- Generic VLAN Registration (GVRP)
- DHCP Relay (Layer 2)
- IGMP v1/v2/v3 snooping
- IGMP Querier
- IGMP Proxy
- MLD v1/v2 snooping

### Layer 3 Switching

- IPv4 Static routing
- IPv6 Static routing

### Security

- Secure Shell (SSH) Protocol
- Secure Sockets Layer (SSL)
- IEEE 802.1X
- Layer 2 isolation Private VLAN Edge (PVE)
- Port Security
- IP Source Guard
- RADIUS/ TACACS+
- Storm control
- ACLs : Supports up to 256 entries

### QoS

- Hardware Priority Queue : Supports 8 hardware queues
- Scheduling : Strict priority and weighted round-robin (WRR)
- Queue assignment based on DSCP and class of service (802.1p/ CoS)
- Classification: Port based; 802.1p VLAN priority based; IPv4/IPv6 precedence/ type of service (ToS) / DSCP based; Differentiated Services (DiffServ); classification and re-marking ACLs, trusted QoS
- Rate Limiting: Ingress policer; egress shaping and rate control; per VLAN, per port and flow based

### IPv6 Applications

- Web/ SSL, Telnet/ SSH, ping, Simple Network Time Protocol (SNTP), Trivial File Transfer Protocol (TFTP), SNMP, RADIUS, Syslog, DNS Client, protocol-based VLANs

### Management function

- Web UI interface
- SNMP v1, v2c and V3
- Remote Monitoring (RMON)

- Telnet / Console Management
- Port mirroring
- IPv4 and IPv6 dual stack
- Dual Image: Dual image provides independent primary and secondary OS files for backup while upgrading
- DHCP Server
- s-Flow
- UPnP
- IPv4 and IPv6 dual stack
- Firmware upgrade

#### **Green Ethernet**

- Link detection: Compliant with IEEE802.3az Cable length detection

#### **Discovery**

- LLDP with LLDP-MED extensions

#### **Ordering Information:**

**AirLive SNMP-24MGB Plus**    20 Port Fiber with 4 Port Combo Managed Switch

#### **Power**

- 100-240 VAC 50~60Hz, Internal
- 48VDC

#### **Dimensions**

- 442(W)x 44(H) x 211(D) mm

#### **Operating temperature**

- -20 to 60 °C

#### **Storage temperature**

- 40°C to 85 °C