

AIMnetworks 24GbE4SFP+

24 RJ45 10/100M/1000M and 4 SFP+ ports Switch, PoE, Built-in power supply.

Description

The AIMnetworks 24GbE4SFP+, a Layer 3 managed switch, is designed for the edge of access and LAN to provide high-quality network connections. The AIMnet 24GbE4SFP+ provides 24 10/100/1000Base-T ports and 4 SFP+.



Features

- Conforms to IEEE802.3, IEEE 802.3u, IEEE802.3ab, IEEE802.3x, IEEE802.3z, IEEE802.3ad
- Provides 24 10/100/1000Base-T ports and 4 SFP+
- High back-plane bandwidth: 176Gbps
- IEEE802.3x Flow control
- Surge protection for power ports and data ports

Item	Description
Hardware	
Fixed Port	24 10/100/1000Base-T ports 4 SFP+ ports 1 Console port 1 USB port 1 Reset port
LED Indicators	PWR, Link/Act LED
Input Voltage	100V~240V AC, 50/60Hz
Power Consumption	18W
CPU	1GHz
DDR	4GB DDR3
Flash Memory	128 Mbits
Operating Temperature	0℃~40℃
Storage Temperature	-40℃~70℃
Relative Humidity	5%~95% (non-condensing)
Thermal Methods	Built-in Fan
L2 Switching	
Switching Capacity	128 Gbps
Packet Buffer	12 Mbits
Throughput	95.232 Mpps
Port Configuration	
Port auto-negotiation	Support
Port flow control	Support full duplex IEEE802.3x flow control Support Half-duplex back pressure flow control
Broadcast storm control	Support broadcast, multicast, DLF packet rate limit
Port Mirroring	Support
Port Isolation	Support
Port Self-loop Detection	Support
Link Aggregation	Support Supports up to 128 aggregation groups, each group supports up to 8
Jumbo Frame	Jumbo packets up to 12K bytes
Redundant port	Support
MAC Configuration	
MAC address table	16K
MAC address table management	Support
Static MAC address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Address Learning control	Control number of port-based MAC address learning
VLAN Configuration	
Number of VLANs	4K
Port-based VLAN	Support

802.1q VLANs	Support
MAC-based VLAN	Support
IP-based VLAN	Support
Protocol-based VLAN	Support
Voice VLAN	Support
VLAN mapping	Support
QinQ	Support
Reliability Protocol	
Spanning Tree Protocol	Support STP/RSTP/MSTP
ERPS Protocol	Support G.8032/Y.1344
LLDP	Support LLDP&LLDP-MED
Routing	
ARP	Support static and dynamic ARP
Static routing	Support
VLAN interface	Support 32 VLAN interfaces
L3 Routing Protocol	
RIP	Support RIP v1/v2
OSPF	Support OSPF v2
Policy routing	Support
VRRP	Support
Multicast Functions and Protocols	
Static multicast MAC	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3
MVR	Support
GMRP	Support
ACL Access Control List	
ACL based on standard IP	Support
ACL based on extended IP	Support
ACL based on MAC IP	Support
ACL based on MAC ARP	Support
ACL port filtering	Support
ACL based on time	Support
QoS	
Number of port queues	8
queue scheduling algorithms	Support WRR
Classification based on port	Support
Classification based on 802.1p	Support
Classification based on DSCP	Support
Classification based on ACL	Support
QoS policy	Supports mapping of different data streams to different queues Support data stream to modify COS or DSCP value Support the speed limit of data stream Support data stream statistics Support data stream mirroring
DHCP	
DHCP Client	Support

DHCP Snooping	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
Security	
ACL	Support Standard IP / Extend IP / MAC IP / ARP
Security Features	Support MAC-based 802.1X authentication Support AAA/RADIUS authentication Support WEB/Telnet password protection
Self-protection	Support CPU Self-protection
Management	
CLI	Support CLI (Commend Line Interface) configuration
Console	Support Configuration via the console port
Telnet	Support Local/remote configuration via Telnet
WEB	Support WEB management system
SNMP	Support System configuration with SNMP v1/v2c
User Management	Support Multi-user management
System Log	Support
Configuration File Download/Upload	Support Download/Upload configuration File via WEB/TFTP/USB
Upgrade Firmware	Support Upgrade Firmware via WEB/TFTP
Debug	
PING	Support
TRACEROUTE	Support
Telnet client	Support