

AI-G2424SFP Series

L2+ Rackmount 24-Port 10/100/1000T 802.3at PoE + 4-Port 1000X SFP Industrial Managed Ethernet Switch



Features

- ▶ Support 24x10/100/1000Base-T + 4x1000Base-X SFP + 1xRS485
- ▶ 10/100/1000Mbps RJ45 Port supports Full/Half-duplex, Auto-negotiation, Auto MDI/MDIX
- ▶ IEEE802.3af/at compliant
- ▶ DIP Switch supports one-key VLAN, one-key Ring Management, PoE Reset and 250mPoE Network
- ▶ 10K Bytes Jumbo Frame
- ▶ IEEE 802.3az Energy Efficient Ethernet (EEE)
- ▶ IP40 Aluminum Case
- ▶ Supports 1U 19" Rackmount installation
- ▶ -20°C to 70°C (-4°F to 158°F) operating temperature

INTRODUCTION

Acumen Technologies' AI-G2424SFP Series is the L2+ managed rackmount 24-port 10/100/1000Base-T 802.3at PoE + 4-port 1000Base-X SFP hardened Ethernet switch. The Switch has 24 TP ports and 4 fiber ports. The TP (RJ45) supports 10/100/1000Base-T(X), Full/Half duplex mode, and auto MDI/MDI-X connection; the 1000Base-X SFP port supports 1 or 2 core Single-mode or Multi-mode fiber. With its reliable design and ease of use, the product is a great choice for integrating networks consisting of network devices such as IP cameras and wireless access points between remote locations.

APPLICATION

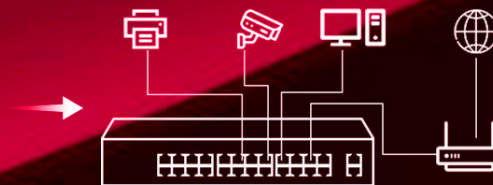
Plug and Play

Just plug in the power cord and network cable, no configuration required.

1. Connect to Power




2. Connect the Devices



3. Enjoy



Ethernet	
Standards:	IEEE802.3 10BASE-T
	IEEE802.3u 100BASE-TX/FX
	IEEE802.3ab 1000BASE-T
	IEEE802.3z 1000BASE-X
	IEEE802.3p QoS
	IEEE802.1d Spanning Tree
Forward & Filtering Rate:	14,880pps (10Mbps)
	148,800pps (100Mbps)
	1,488,000pps (1000Mbps)
Packet Buffer Memory:	12M bits
Forwarding capacity:	41.67 Mpps
Switching capacity:	56 Gbps
Max Packet Length:	10K Bytes Jumbo Frame
Address Table Size:	16K MAC Addresses
Interface	
Connector:	24 x RJ45
RS485:	1 x RS485 (Optional)
Optical Port:	4 x 1000Base-X SFP
USB-C:	1 x USB-C (for Management)
RS485 Serial Interface (Optional)	
Physical interface	Industrial standard 3-pin screw terminal
Data type	1Ch RS485 Bi-Direction
RS-485 signals	Data+, Data-, GND
Serial port line distance (copper)	1000 meters
Baud rate	0 ~ 800kbps
PoE (Power over Ethernet)	
Standard:	IEEE 802.3at Power over Ethernet Plus
	IEEE 802.3af Power over Ethernet
Port:	RJ45 24x10/100/1000Base-T
Power Pin Assignment	4/5(+), 7/8(-)
PoE Budget:	Up to 720-watt PoE budget
Environmental	
Operating Temperature:	-20°C to 70°C (-4°F to 158°F)
Storage Temperature:	-20°C to 75°C (-4°F to 167°F)
Operating Humidity:	10% to 95% non-condensing
MTBF	> 200,000 hrs
Electrical and Mechanical	
Input Power:	100~240VAC 50/60Hz, 48~57VDC, Redundant Power
Power Consumption:	15W Max.(PoE in Use<720W)
Protection:	

Power Input Overload:	Automatic Resettable		
Reverse Polarity:	Present		
DIP Switch			
4-digit DIP switch function 	DIP	Function	Settings
	SW 1	VLAN	ON - Enabled OFF - Disabled
	SW 2	Ring Management	ON - Enabled OFF - Disabled
	SW 3 (to be upgraded)	250m PoE Network	ON - Enabled OFF - Disabled
	SW 4 (to be upgraded)	PoE Reset	ON - Enabled OFF - Disabled
LED Indicators:			
PWR:	Power Status		
Ethernet (Per Port):	Link/Activity		
PoE	PoE Status (T1~T24)		
Fiber:	Gigabit SFP Port: F1~F4		
Dimensions (L x W x H):	440mm x 300mm x 45mm		
Weight:	3.5Kg		
Casing:	Aluminum Case		
Mounting Options:	Rackmount		
Software Features			
Redundancy Protocols	Support STP/RSTP/MSTP/ERPSv2, Link Aggregation		
Multicast Protocols	Support IGMP Snooping V1/V2/V3 support GMRP, GVMP,802.1Q		
VLAN	Support IEEE 802.1Q 4K VLAN support QINQ, Double VLAN,		
Time Management	SNTP		
QOS	Flow-based redirection Flow-based rate limiting Flow-based packet filtering 8*Output queues of each port IEEE 802.1p / DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)		
ACL	Port-based Issuing ACL ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc		
PoE Management	Total power limit of PoE power supply PoE output power allocation PoE output priority configuration PoE working status Scheduling of PoE operation		
Diagnostic Maintenance	Support port mirroring, Syslog, Ping		
Management Function	Support CLI, WEB, SNMPv1/v2/v3, Telnet server for management, EEE, LLDP, DHCP Server/Client (IPv4/IPv6), Cloud/MQTT		
Alarm Management	Support 1 way relay alarm output, RMON, TRAP		

Security	Broadcast Storm Protection, HTTPS/SSLv3, AAA & RADIUS, SSH2.0 Support DHCP Snooping, Port-based IEEE802.1x authentication, Support user hierarchical management, ACL access control list, Support DDOS port-based MAC filtering / binding, MAC black holes, MAC Address, IP source protection, Port isolation, ARP message speed limit
Advance Layer 2+ Features	IPv4/IPv6 Management Static Route
Regulatory Approvals	
ISO9001, CE, RoHS, FCC Class A	
EN55022:2010+AC: 2011, Class A	
EN 61000-3-2: 2006+A1: 2009+A2: 2009	
EN 61000-3-3: 2013	
EN55024:2010	
IEC 61000-4-2: 2008 (ESD)	
IEC 61000-4-3: 2010 (RS)	
IEC 61000-4-4: 2012 (EFT)	
IEC 61000-4-5: 2014 (Surge)	
IEC 61000-4-6: 2013 (CS)	
IEC 61000-4-8: 2009 (PFMF)	