



Product Datasheet

24-port Full Gigabit Managed PoE Switch

ARIONET-POE24GE2S



OVERVIEW

The ARIONET-POE24GE2S is a gigabit L2+ managed PoE fiber switch independently developed by ARIONET. It has 24*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber ports (combo port). Port 1-24 can support IEEE802.3af/at PoE standard. single port PoE power reaches 30W, and the maximum PoE output power is 400W(at-600W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to POE terminal equipment such as wireless AP, webcam, VoIP phone, building visual access control intercom through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, Factory quarters and SMB small and medium-sized enterprises form a cost-effective network.

The ARIONET-POE24GE2S has the L2+ full network management, support IPV4/IPV6 management, static route full line rate forwarding, security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS to improve link backup and network reliability. When one-way network fails, communication can be quickly restored



to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURE

■ Gigabit access, Gigabit SFP fiber port uplink

- ◇ Support “Gigabit Ethernet port and Gigabit SFP port” combination, which enables users to flexibly build networking to meet the needs of various scenarios.
- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

■ Intelligent PoE power supply

- ◇ 24*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ IEEE 802.3af/at PoE standard, without damaging non-PoE devices.
- ◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.
- ◇ PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

■ Strong business processing capability

- ◇ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN and QinQ configuration.
- ◇ QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including Equ, SP, WRR & SP+WRR.
- ◇ ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.



- ◇ IGMP V1/V2 and IGMP Snooping.
- ◇ ERPS/STP/RSTP/MSTP.
- ◇ Static and dynamic aggregation.

■ **Security**

- ◇ 802.1X authentication.
- ◇ Port isolation, Storm control.
- ◇ IP-MAC-VLAN-Port binding.

■ **Stable and reliable**

- ◇ Low power consumption, galvanized steel casing, The Fan active cooling.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.

■ **Easy operation and maintenance management**

- ◇ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- ◇ HTTPS, SSLV3, and SSHV1/V2.
- ◇ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

Model	ARIOONET-POE24GE2S	ARIOONET-POE24GE2S-at
Interface Characteristics		
	24*10/100/1000Base-T PoE ports (Data/Power)	
Fixed Port	2*100/1000Base-X uplink SFP ports (include 2* set combo ports)(Data)	
	1 * RS232 console port(115200,N,8,1)	



Ethernet Port	10/100/1000Base-T(X) auto-sensing, Full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/Distance	Multi-mode: 850nm /0 ~ 550M, single-mode: 1310nm /0 ~ 40KM, 1550nm/ 0 ~ 120KM.
Chip Parameter	
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	256Gbps
Forwarding Rate@64byte	38.69Mpps
MAC	8K
Buffer Memory	8M
Jumbo Frame	9.6K
CPU(Hz)	416M
DRAM	1G
Flash	128M



LED Indicator	Power:PWR(yellow), System :SYS(yellow), Network ;Link(yellow), POE: PoE (green), Fiber port: L/A(green)	
Reset Switch	Yes, One-button factory reset	
PoE & Power Supply		
PoE Port	Port 1 to 24 IEEE802.3af/at @ POE	
PoE Management	PoE working status Delay start of power supply PoE output priority configuration Scheduling of PoE operation and time Total power limit of PoE power supply PoE output power allocation, off& af &at	
Power Supply Pin	Default 1/2 (+), 3/6 (-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	400W (AC100-240V)	600W (AC100-240V)
Power Consumption	Standby:<18W;Full load:<380W	Standby:<22W;Full load:<600W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 5.0A	Built-in power supply, AC 100~240V 50-60Hz 6.6A
Physical Parameter		
Operation TEMP / Humidity	-20~+55°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing	
Dimension (L*W*H)	440*290*44.5mm	
Net /Gross Weight	<4.4kg / <5.0kg	<4.6kg / <5.3kg
Installation	Desktop, 19 inch 1U cabinet	
Certification & Warranty		



Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS
Warranty	2 years, lifelong maintenance.
Network Management Features	
Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps. Port temperature protection setting Port green Ethernet Energy-saving setting
Layer 3 Features	L2+ Network management, IPV4/IPV6 management L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	VLAN based on MAC VLAN based on the protocol Voice VLAN, QinQ configuration 4K VLAN based on port, IEEE802.1q Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation Max 13 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Industrial Ring Network Protocol	G.8032 (ERPS),Recovery time less than 20ms 255 Ring at most, Max 1024 devices per ring.
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out MLD Snooping v1/v2,Multicast VLAN



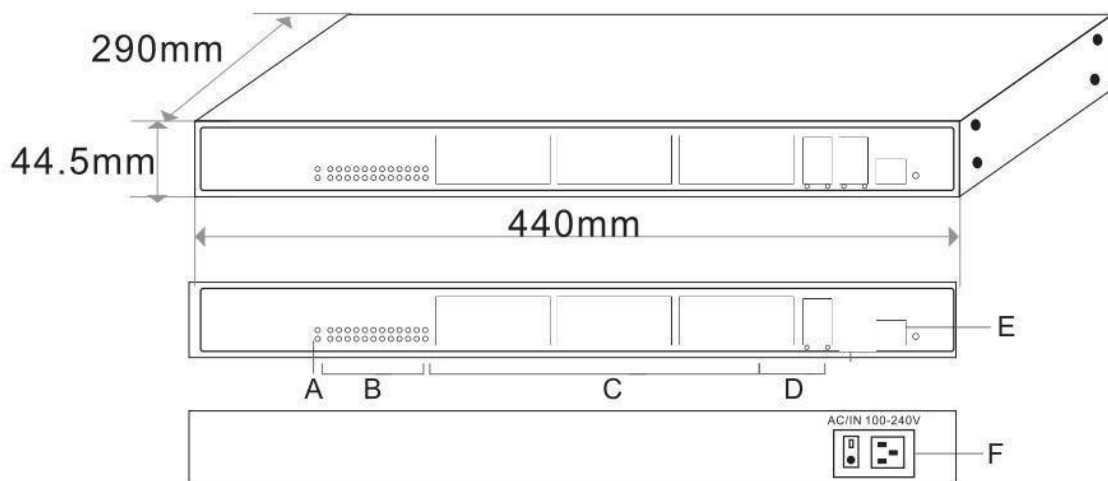
Port Mirroring	Bidirectional data mirroring based on port
	Flow-based Redirection
	Flow-based Rate Limiting
	Flow-based Packet Filtering
QoS	8*Output queues of each port
	802.1p/DSCP priority mapping
	Diff-Serv QoS,Priority Mark/Remark
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
ACL	L2 to L4 packet 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.
	Port-based Issuing ACL.
	ACL based on port and VLAN
Security	IP-MAC-VLAN-Port binding
	ARP inspection,Anti-DoS attack
	AAA & RADIUS,MAC learning limit
	Mac black holes,IP source protection
	IEEE802.1X & MAC address authentication
	Broadcast storm control,Backup for host datum
	SSH 2.0,SSL,Port isolation,ARP message speed limit
	User hierarchical management and password protection
DHCP	DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay
	CPU instant utilization status view
	Console/AUX Modem/Telnet/SSH2.0 CLI
Management	One-key recovery, Web Management (HTTPS)
	Cable Diagnose,LLDP, NTP,System work log,Ping Test
	ARIOONET NMS -Network Management System Platform (LLDP+SNMP)



Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP
V1/V2C/V3

System
Category 5 Ethernet network cable
Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
or higher, Microsoft Internet Explorer10 or later;
TCP/IP, network adapter, and network operating system (such as
Microsoft Windows, Linux, or Mac OS X) installed on each computer in
a network

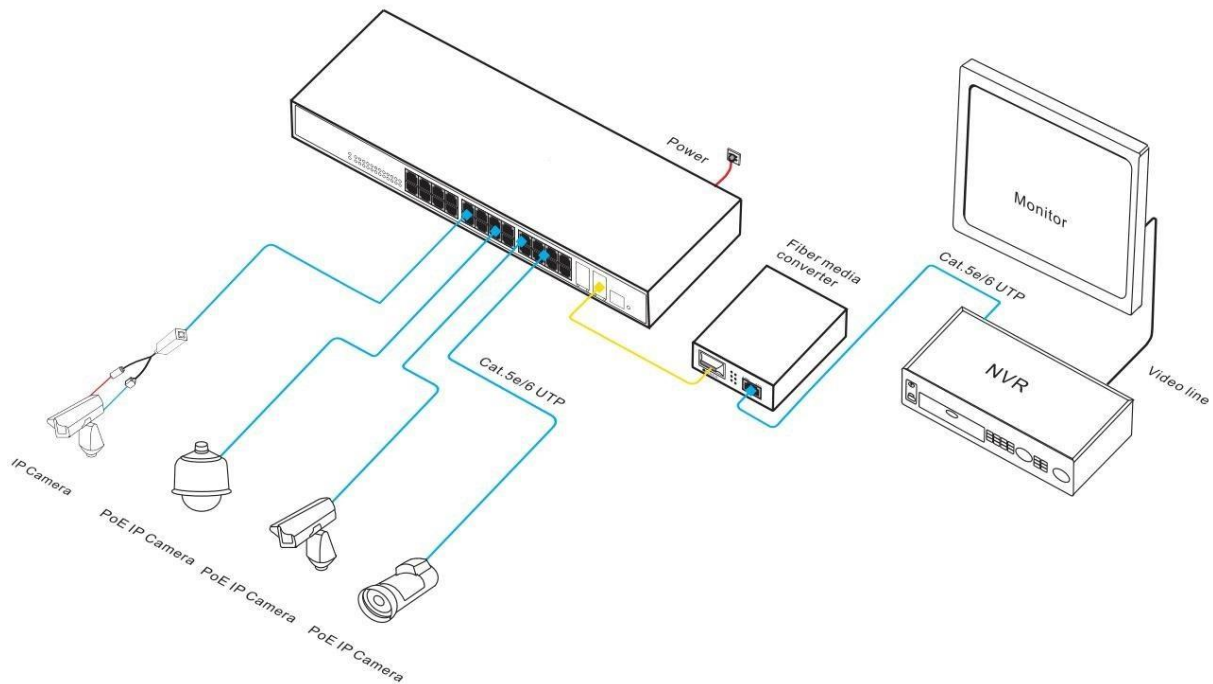
DIMENSION



- | | |
|------------------------------|--|
| A. Power indicator | B. PoE work indicator |
| C. 24*10/100/1000M PoE ports | D. 2*100/1000M SFP ports (Combo port) |
| E. Console port | F. Power input port AC100-240V,50/60Hz |



APPLICATION



ORDERING INFORMATION

Model	Description
ARIOONET-POE24GE2S	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and 2*100/1000M SFP fiber ports (2 set combo ports). Port 1-24 can support IEEE802.3af/at PoE standard, Built-in 400W power supply.
ARIOONET-POE24GE2S-at	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and 2*100/1000M SFP fiber ports (2 set combo ports). Port 1-24 can support IEEE802.3af/at PoE standard, Built-in 600W power supply.

PACKING LIST



PACKING LIST	CONTENT	QTY	UNIT
	24-port full gigabit managed PoE switch	1	SET
	RJ45-DB9 Line	1	PC
	AC Power Cable	1	PC
	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

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