

Product Datasheet

28-port Full Gigabit Managed PoE Switch

(ARN-33028PM+4S)



OVERVIEW

The ARN-33028PM+4S is a full gigabit L2+ managed PoE fiber switch independently developed by ONV. It has 24*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports. Port 1-24 can support IEEE802.3af/at standard PoE power supply. 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 ARN-33028PM+4S has L2+ full network management, support IPV4 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) to improve link backup and network reliability. When

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

Intelligent PoE power supply

- ♦ IEEE802.3af/at PoE standard, without damaging non-PoE devices.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- 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.
- 24*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios

Security

- \diamond 802.1X authentication.
- ◇ Port isolation,Storm control.
- ◇ IP-MAC-VLAN-Port binding.
- Strong business processing capability
- ♦ STP/RSTP/MSTP.
- ♦ Static and dynamic aggregation.







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- ◇ IGMP V1/V2 and IGMP Snooping.
- ♦ IEEE802.1Q VLAN, flexible VLAN division.
- 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.

Stable and reliable

- \diamond CCC,CE, FCC, RoHS.
- \diamond 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.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.
- **Easy operation and maintenance management**
- \diamond HTTPS, SSLV3, and SSHV1/V2.
- ♦ RMON, system log, LLDP, and port traffic statistics.
- ♦ CPU monitoring, memory monitoring, Ping test, and cable diagnose.
- ♦ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

TECHNICAL SPECIFICATION

Model	ARN-33028PM+4S
Interface Characterist	ics
	24*10/100/1000Base-T PoE ports (Data/Power)
Fixed Port	4*100/1000Base-X uplink SFP slot ports (Data)
	1*RS232 console port(115200,N,8,1)

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Ethernet Port	10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X	
EllemetPolt	self-adaption	
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
	100BASE-TX: Cat5 or later UTP(≤100 meter)	
Transmission	1000BASE-T: Cat5e or later UTP(≤100 meter)	
	Gigabit SFP optical fiber interface, default no include optical modules	
SFP Slot Port	(optional order single-mode / multi-mode, single fiber / dual fiber optical	
	module. LC)	
Optical Cable/	Multi-mode: 850nm / 0- 500M, Single-mode: 1310nm/ 0- 40KM, 1550nm	
Distance	/0-120KM.	
Chip Parameter		
Network Management		
Туре	L2+	
Notwork Drotocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX	
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	192Gbps	
Forwarding	41.7Mpps	
Rate@64byte		
MAC	8K	
Buffer Memory	4.1M	
Jumbo Frame	10K	
LED Indicator	Power:PWR(Yellow), System: SYS(Yellow), Network: Link/Act(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	Total power limit of PoE power supply	
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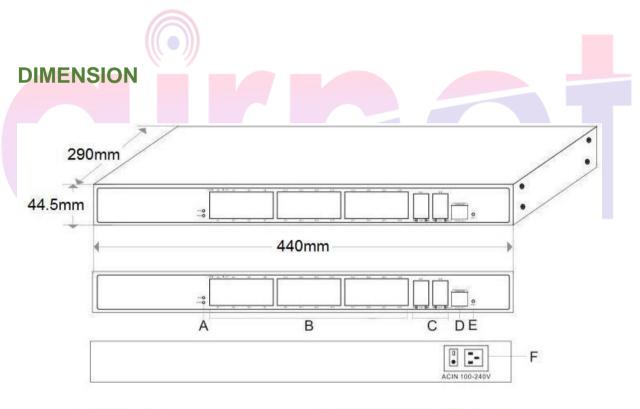
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	PoE output power allocation, PoE on/off & af/at	
	PoE output priority configuration, PoE working status	
	Delay start of power supply, Scheduling of PoE operation and time	
Power Supply Pin	Default 1/2 (+) 3/6 (-)	
Max Power Per Port	30W, IEEE802.3af/at	
Total PWR / Input Voltage	400W (AC100-240V)	
Power Consumption	Standby:<18W,Full load:<380W	
	Built-in power supply, AC	
Power Supply	100~240V 50-60Hz 5.0A	
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	
Installation	Desktop, 19 inch 1U cabinet	
Certification & Warran	ty	
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30	
Cartification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class	
Certification	B, RoHS	
Warranty	3 years, lifelong maintenance.	
Network Management	Features	
	Port real-time traffic management (Flow Interval)	
Interfoco	IEEE802.3X (Full-duplex), Broadcast storm control based on port speed	
Interface		
	The speed limit of the message flow in the access port. The minimum	



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Lover 2 Features	IPV4 management, L2+ Network management
Layer 3 Features	Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	Port configuration of Access, Trunk, Hybrid
VLAN	VLAN based on the protocol, 4K VLAN based on port, IEEE802.1q
	LACP, Static aggregation
Port Aggregation	Max 14 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out
Multicast	Multicast VLAN
Port Mirroring	Bidirectional data mirroring based on port
	Flow-based redirection, Flow-based rate limiting
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
005	Flow-based packet filtering, 8*Output queues of each port
	802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark
	Port-based Issuing ACL, ACL based on port and VLAN
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL
AGL	based on MAC, Destination MAC address, IP Source, Destination IP, IP
	Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
	Broadcast storm control, Backup for host datum
	SSH 2.0, SSL, Port isolation, ARP message speed limit
Security	User hierarchical management and password protection
	IP-MAC-VLAN-Port binding, ARP inspection, Anti-DoS attack
	AAA,MAC learning limit, Mac black holes, IP source protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server
	Console/AUX Modem/Telnet/SSH2.0 CLI
	NTP, System work log, Ping Test, CPU instant utilization status view
Management	One-key recovery, Cable Diagnose, LLDP, Web Management (HTTPS)
	ONV-NMS - Smart Network Management System Platform
	(LLDP+SNMP)

		Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP
		V1/V2C/V3
		Category 5 Ethernet network cable
System		Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42
	Sustan	or higher, Microsoft Internet Explorer10 or later;
	System	TCP/IP, network adapter, and network operating system (such as
		Microsoft Windows, Linux, or Mac OS X) installed on each computer in a
		network



- A. Working indicator
- B. 24*10/100/1000M PoE ports

D. Console port

- C. 4*100/1000M SFP ports
- E. Reset switch

F. Power input port AC100-240V,50/60Hz

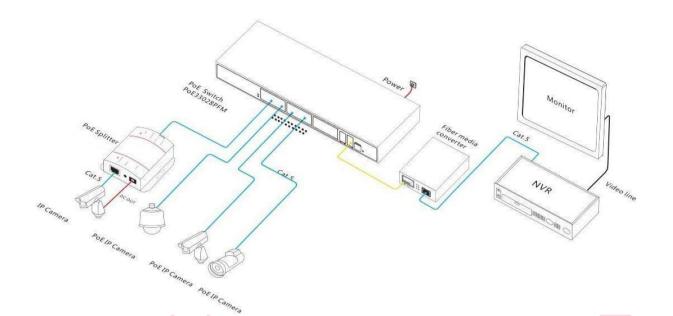
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APPLICATION

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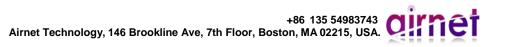
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ORDERING INFORMATION

Model	Description
	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and
ONV-POE33028PFM	4*100/1000M SFP fiber slot ports. Port 1-24 can support
	IEEE802.3af/at PoE standard. Built-in 400W power supply.
	L2+ managed PoE fiber switch with 24* 10/100/1000M RJ45 ports and
ONV-POE33028PFM-at	4*100/1000M SFP fiber slot ports. Port 1-24 can support
	IEEE802.3af/at PoE standard. Built-in 600W power supply.
Note: The SFP optical mo	dule is not included by default and needs to be purchased separately.





PACKING LIST

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



