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Product Datasheet

20-port Full Gigabit Managed PoE Switch

ARN33020PM+4S



PoE Switch

The ARN33020PM+4S is a gigabit L2+ managed PoE fiber switch. It has 16*10/100/1000 Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports. Port 1-16 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 250W(at-400W). 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 ARN33020PM+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 one-way network +86 135 54983743

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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

- 16*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ♦ IEEE802.3af/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 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.
- $\diamond~$ IGMP V1/V2 and IGMP Snooping.



- \diamond STP/RSTP/MSTP.
- ♦ Static and dynamic aggregation.

Security

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

Stable and reliable

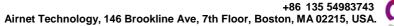
- \diamond Low power consumption, galvanized steel casing, The fan active cooling.
- Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- \diamond CCC,CE, FCC, RoHS.
- The user-friendly panel, it can show the device status through the LED indicator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

Easy operation and maintenance management

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

TECHNICAL SPECIFICATION

| Model | ARN33020PM+4S | | |
|---------------------------|--|--|--|
| Interface Characteristics | | | |
| Fixed Port | 16*10/100/1000Base-T PoE ports (Data/Power) 4*100/1000Base-X uplink SFP slot ports (Data) | | |
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| | 1 * RS232 console port(115200,N,8,1) | |
|------------------------------|---|--|
| Ethernet Port | Port 1-16 can support 10/100/1000Base-T(X) auto-sensing,Full/half | |
| Twisted Pair Transmission | duplex MDI/MDI-X self-adaption | |
| | 10BASE-T: Cat3,4,5 UTP(≤100 meter) | |
| | 100BASE-TX: Cat5 or later UTP(≤100 meter) | |
| TANSMISSION | 1000BASE-T: Cat5e or later UTP(≤100 meter) | |
| | Gigabit SFP optical fiber interface, default matching optical modules | |
| SFP Slot Port | (optional order single-mode / multi-mode, single fiber / dual fiber optical | |
| | module. LC) | |
| | Multi mode: 850nm 0 ~ 550M, Single mode: 1310nm 0 ~ 40KM, 1550nm | |
| Optical Cable | 0 ~ 120KM. | |
| Chip Parameter | | |
| Network | L2+ | |
| Management Type | LZT | |
| | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T | |
| Network Protocol | IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T | |
| | IEEE802.3z 1000Base-X, IEEE802.3x | |
| Forwarding Mode | Store and Forward(Full Wire Speed) | |
| Switching Capacity | 192Gbps | |
| Forwarding | | |
| Rate@64byte | 29.76Mpps | |
| MAC | 8К | |
| Buffer Memory | 4.1M | |
| Jumbo Frame | 10K | |
| CPU(Hz) | 500M | |
| DRAM | 1G | |
| Flash | 256M | |
| | Power:PWR (yellow), system :SYS (yellow), network: Link(yellow), | |
| LED Indicator | POE: PoE (green), Fiber port: L/A(green) | |
| | | |

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| Reset Switch | Yes, One-button factory reset | | | |
|------------------------|---|--|--|--|
| PoE & Power Supply | | | | |
| PoE Port | Port 1 to 16 IEEE802.3af/at @ POE | | | |
| | PoE working status | | | |
| | Delay start of power supply | | | |
| PoE Management | PoE output priority configuration | | | |
| TOE Management | Total power limit of PoE power supply | | | |
| | Scheduling of PoE operation and time | | | |
| | 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 | 400W (AC100-240V) | | | |
| Voltage | 40000 (AC100-2400) | | | |
| Power Consumption | Standby<18W, Full load<380W | | | |
| Power Supply | Built-in power supply, AC 100~240V 50-60Hz 5.0A | | | |
| Physical Parameter | | | | |
| Operation TEMP / | -20~+55°C;5%~90% RH Non condensing | | | |
| Humidity | | | | |
| Storage TEMP / | -40~+75°C;5%~95% RH Non condensing | | | |
| Humidity | | | | |
| Dimension (L*W*H) | 440*290*44.5mm | | | |
| Net /Gross Weight | <4.0kg / <4.5kg | | | |
| Installation | Desktop, 19 inch 1U cabinet | | | |
| Certification & Warra | nty | | | |
| Lightning protection / | Lightning protection: 6KV 8/20us; Protection level: IP30 | | | |
| protection level | | | | |
| Certification | CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class | | | |
| Continuation | B; RoHS | | | |



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| Warranty | 3 years |
|-------------------|---|
| Network Managemen | t Features |
| | IEEE802.3X (Full-duplex) |
| | Port temperature protection setting |
| | Port green Ethernet Energy-saving setting |
| Interface | Broadcast storm control based on port speed |
| | The speed limit of the message flow in the access port. The minimum |
| | particle size is 64Kbps. |
| | L2+ Network management, IPV4 management |
| Layer 3 Features | L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR |
| | @ 1024 pcs |
| | 4K VLAN based on port, IEEE802.1q |
| VLAN | Port configuration of Access, Trunk, Hybrid |
| | VLAN based on MAC, QinQ configuration, VLAN based on the protocol |
| Port Aggregation | LACP, Static aggregation |
| 1 on Aggregation | Max 10 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 |
| Wullicast | MLD Snooping v1/v2,Multicast VLAN |
| Port Mirroring | Bidirectional data mirroring based on port |
| | Diff-Serv QoS, Priority Mark/Remark |
| | 8*Output queues of each port |
| | 802.1p/DSCP priority mapping |
| QoS | Queue Scheduling Algorithm (SP, WRR, SP+WRR) |
| | Flow-based Packet Filtering |
| | Flow-based Redirection |
| | Flow-based Rate Limiting |
| ACL | L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL |
| AUL | based on MAC, Destination MAC address, IP Source, Destination IP, IP |



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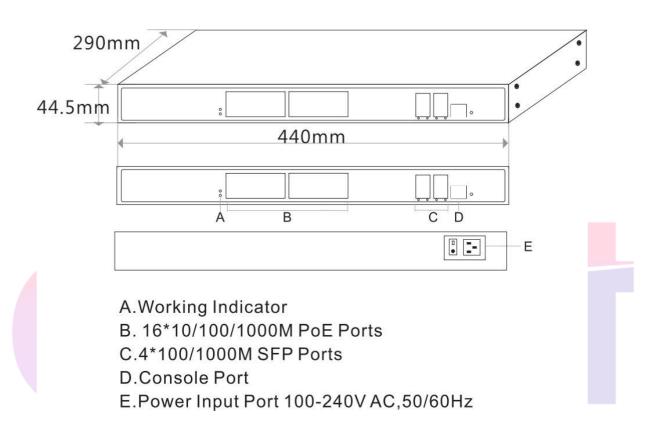


| | Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc. | | |
|------------|--|--|--|
| | Port-based Issuing ACL. | | |
| | ACL based on port and VLAN | | |
| | User hierarchical management and password protection | | |
| | SSH 2.0,SSL,Port isolation,ARP message speed limit | | |
| | Broadcast storm control, Backup for host datum | | |
| O a suritu | IEEE802.1X & MAC address authentication | | |
| Security | Mac black holes, IP source protection | | |
| | AAA & RADIUS,MAC learning limit | | |
| | ARP inspection, Anti-DoS attack | | |
| | IP-MAC-VLAN-Port binding | | |
| DHCP | DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay | | |
| | Console/AUX Modem/Telnet/SSH2.0 CLI | | |
| | Web Management (HTTPS) | | |
| | Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP | | |
| | V1/V2C/V3 | | |
| Management | One-key recovery | | |
| | NTP,System work log,Ping Test | | |
| | Cable Diagnose,LLDP | | |
| | CPU instant utilization status view | | |
| | NMS - Smart Network Management System Platform (LLDP+SNMP) | | |
| | Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 | | |
| | or higher, Microsoft Internet Explorer10 or later; | | |
| Sustam | Category 5 Ethernet network cable | | |
| 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 | | |
| | | | |

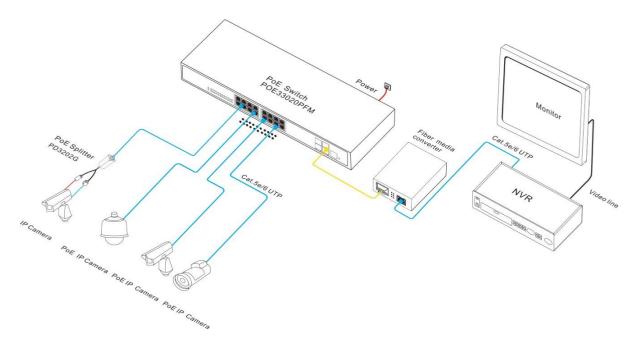




DIMENSION



APPLICATION







ORDERING INFORMATION

| Model | Description |
|----------------|--|
| | L2+ managed PoE fiber switch with 16* 10/100/1000M RJ45 ports and |
| POE33020PFM-at | 4*100/1000M SFP fiber slot ports. Port 1-16 can support IEEE802.3af/at |
| | PoE standard, Built-in 400W power supply. |

Note: The SFP optical module is not included by default and needs to be purchased separately.

PACKING LIST



| | CONTENT | QTY | UNIT |
|--------------|---|-----|------|
| PACKING LIST | 20-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 |

