



10-port Full Gigabit Managed PoE Switch



DATASHEET

Product Datasheet

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OVERVIEW

is a full gigabit L2+ managed PoE fiber switch. It has 8*10/100/1000Base-T RJ45 ports and 2*100/1000Base-X SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 130W(at-250W). 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.

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 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

- 8*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.
- 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.
- \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

- ♦ 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).
- ♦ HTTPS, SSLV3, and SSHV1/V2.
- ♦ RMON, system log, LLDP, and port traffic statistics.
- ◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

TECHNICAL SPECIFICATION

Interface Characteristics		
Fixed Port	8*10/100/1000Base-T PoE ports (Data/Power)	
	2*100/1000Base-X uplink SFP slot ports (Data)	
	1 * RS232 console port(115200,N,8,1)	

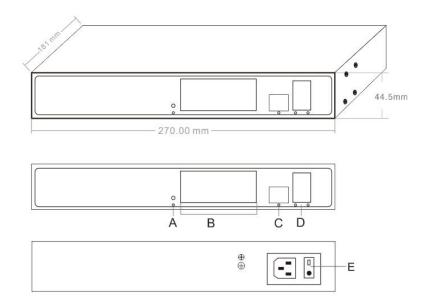
Ethernet Port	10/100/1000Base-T(X), auto-sensing, full/half duplex MDI/MDI-X	
	self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter)	
	100BASE-TX: Cat5 or later UTP(≤100 meter)	
	1000BASE-T: Cat5e or later UTP(≤100 meter)	
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules	
	(optional order single-mode / multi-mode, single fiber / dual fiber optical	
	module. LC)	
Optical Cable/	Multi mode: 850nm / 0 ~ 500M, single mode: 1310nm/ 0 ~ 40KM,	
Distance	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	128Gbps	
Forwarding	14.88Mpps	
Rate@64byte		
MAC	8K	
Buffer Memory	4.1M	
Jumbo Frame	10K	
CPU(Hz)	500M	
DRAM	1G	
Flash	128M	
LED Indicator	Power:PWR (yellow), system :SYS (green), network ;Link (yellow),	
	POE: PoE (green), Fiber port: L/A(green)	

Reset Switch	Yes, One-button factory reset			
PoE & Power				
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE			
	Total power limit of PoE power supply			
	PoE output power allocation, off& af &at			
PoE Management	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	130W (AC100-240V)	250W (AC100-240V)		
Voltage	10011 (10100 2401)	20000 (//0100 2400)		
Power Consumption	Standby:<8W, Full load:<120W	Standby:<10W, Full load:<240W		
Power Supply	Built-in power supply, AC	Built-in power supply, AC 100~240V		
	100~240V 50-60Hz 2.3A	50-60Hz 4.1A		
Physical Parameter				
Operation TEMP / Humidity	-20~+55°C;5%~90% RH Non condensing			
Storage TEMP /	-40~+75°C;5%~95% RH Non condensing			
Humidity				
Dimension (L*W*H)	270*181*44.5mm			
Net /Gross Weight	<1.7kg / <2.2kg			
Installation	Desktop, Wall-mounted, 19 inch 1U cabinet			
Certification & Warranty				
Lightning protection /	Lightning protection: 4KV 8/20us; Protection level: IP30			
protection level				
Certification	CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class			

	B; RoHS;			
Warranty	3 years, lifelong maintenance.			
Network Management Features				
	IEEE802.3X (Full-duplex)			
	Broadcast storm control based on port speed			
Interface	Port real-time traffic management (Flow Interval)			
	The speed limit of the message flow in the access port. The minimum			
	particle size is 1Gbps.			
Layer 3 Features	L2+ Network management, IPV4 management			
	Static route, Default route @ 128 pcs, APR @ 1024 pcs			
	VLAN based on the protocol			
VLAN	4K VLAN based on port, IEEE802.1q			
	Port configuration of Access, Trunk, Hybrid			
Port Aggregation	LACP, Static aggregation			
i olt i tiggi ogation	Max 5 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			
municast	Multicast VLAN			
Port Mirroring	Bidirectional data mirroring based on port			
	Flow-based redirection			
QoS	Flow-based rate limiting			
	Flow-based packet filtering			
	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	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.
Security	IP-MAC-VLAN-Port binding
	ARP inspection,Anti-DoS attack
	AAA & RADIUS,MAC learning limit
	Mac black holes, IP source protection
	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
	One-key recovery
	Cable Diagnose,LLDP
	Web Management (HTTPS)
	NTP,System work log,Ping Test
	CPU instant utilization status view
Management	Console/AUX Modem/Telnet/SSH2.0 CLI
	NMS - Smart 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.Working Indicator
- B. 8*10/100/1000M PoE Ports
- C.Console Port
- D.2*100/1000M SFP Ports
- E.Power Input Port 100-240V AC,50/60Hz

APPLICATION

