

Prestel NS3-48C1-600P-4F10

52-port 10G Uplink L3 Managed PoE Fiber Switch



Product Datasheet

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OVERVIEW

is a 10G uplink L3 managed PoE fiber switch. It has 48*10/100/1000Base-T RJ45 ports and 4*1/10G SFP+ fiber slot ports. Port 1-48 can support IEEE802.3af/at PoE standard. Single-port PoE power reaches 30W. 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, etc. through network cable, to meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprise.

has L3 full network management function, supports IPV4/ IPV6 management, dynamic route full-speed forwarding, complete 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 wire speed access, 10G 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 10G SFP+ uplink 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.
- 48*10/100/1000Base-T RJ45 ports can support POE power supply to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

Security

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

Strong business processing capability

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

Stable and reliable

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

■ Easy operation and maintenance management

- ♦ 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

Interface Characteristics		
Fixed Port	1*Console RS232 port (115200,N,8,1)	
	4*1/10G uplink SFP+ fiber slot ports (Data)	
	48*10/100/1000Base-T PoE ports (Data/Power)	
Ethernet Port	Port 1-48 can support 10/100/1000BaseT auto-sensing,Full/half duplex	
	MDI/MDI-X self-adaption	

Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters)	
	100BASE-TX: Cat5 or later UTP(≤100 meters)	
	1000BASE-T: Cat5e/6 or later UTP(≤100 meters)	
	Gigabit SFP optical fiber port and 10G SFP+ optical fiber port, default no	
Optical Fiber Port	include optical modules (optional order single-mode / multi-mode, single	
	fiber / dual fiber optical module. LC)	
Optical Fiber Port	Support Turbo overclocking 2.5G optical module expansion and ring	
Expansion	network	
Optical Cable/	Multi-mode:850nm/ 0-500M(1G), 850nm/0-300M (10G),	
Distance	Single-mode:1310nm/ 0-40KM, 1550nm/ 0-120KM.	
Chip Parameter		
Network	L3	
Management Type	LS	
	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX	
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X	
	IEEE802.3ae 10GBase-LR/SR, IEEE802.3x	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	368Gbps (non-blocking)	
Forwarding	131Mpps	
Rate@64byte	Το τινιρμο	
CPU	Dual core 1GHz	
DRAM	2GB	
FLASH	256MB	
MAC	32K	
Buffer Memory	16MB	
Jumbo Frame	12KB	
I ED Indicator	System: SYS (Green), Network:Link(Yellow), PoE: PoE (Green), Fiber	
LED Indicator	port: L/A (Green)	

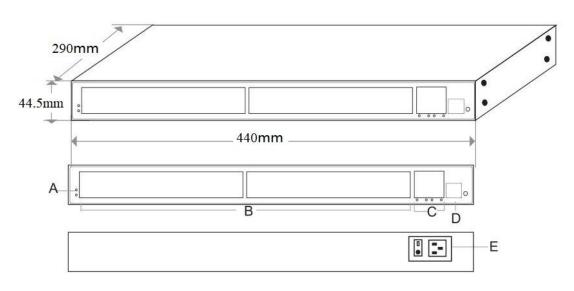
Reset Switch	Yes, press and hold the switch for 10 seconds and release it to restore		
	the factory settings		
PoE & Power Supply			
PoE Port	Port 1 to 48		
PoE Management	PoE working status display, Port PoE on/off, af/at power distribution		
Power Supply Pin	1/2 (+) 3/6(-)		
Max Power Per Port	30W, IEEE802.3af/at		
Power Consumption	Standby<30W, Full Load<600W		
Power Supply	Built-in power supply, AC100~240V 50-60Hz 6.6A		
Physical Parameter			
Operation TEMP/	20 .FF°C F0/ 000/ DI New condension		
Humidity	-20~+55°C, 5%~90% RH Non condensing		
Storage TEMP/	40-190°C F0/-050/ DH Non condensing		
Humidity	-40~+80°C, 5%~95% RH Non condensing		
Dimension (L*W*H)	440*290*44.5mm		
Net /Gross Weight	<4.8kg / <5.5kg		
Installation	Desktop, 19 inch 1U cabinet installation		
Certification & Warra	nty		
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30		
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B,		
Certification	RoHS		
Warranty	3 years, lifelong maintenance.		
Network Managemen	t Features		
	IEEE802.3x flow control (full duplex)		
Interface	Port exception protection mechanism		
	Port real-time flow management (Flow Interval)		
	Broadcast storm suppression based on port rate		
	Optical port SFP module DDMI real-time digital diagnosis		

	Limit the rate of incoming and outgoing packet traffic, with a minimum
	granularity of 16Kbps and a maximum of 1Gbps
	Port EEE Green Ethernet Energy-Saving configuration and status view
	Jumbo frame configuration, the largest 12000byte
	IPV4 Equal Cost Routing
	NG protocol, maximum 1000 entries
	ARP protocol, maximum 1000 entries
	Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6
	IPV4/IPV6 VRRP, the maximum group is 255
	IPV4/IPV6 VLANIF interface supports up to 128
Layer 3 Features	IPV4/IPV6 static route/default route supports up to 128 entries
	IPV4 dynamic routing, RIPv1/v2, OSPFv2, BGP4+, 4000 routing entries
	IPV6 dynamic routing OSPFv3, BGP+, RIPng, IPV6 management, 1000
	routing entries
	L3 network management function, IPV4/IPV6 dual-stack management
	Layer 3 routing and forwarding, support communication between
	different network segments and different VLANs
	VLAN based on MAC, VLAN based on the protocol
VLAN	Port configuration of Access, Trunk, Hybrid, GVRP VLAN protocol
	(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration
Port Aggregation	LACP, Static aggregation
r ort Aggregation	Max 26 aggregation groups and 8 ports per group.
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding
opanning rice	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
EDDS Ding Notwork	Support ERPS ring network, ring network self-healing time is less than
ERPS Ring Network	20ms, ITU-T G.8032
	MLD Snooping, IGMP Snooping, Multicast VLAN
Multicast	User quick log out, MVR (Multicast LAN registration)
	IGMP Snooping v1/v2/v3 and 1024 multicast groups at most

Mirroring	Bidirectional traffic mirroring for basic ports
	Supports 1-to-multiple mirroring, supports up to 4 port sessions
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	Flow-based Rate Limiting, Stream based redirection
	Flow-based Packet Filtering, 8*Output queues of each port
	802.1p/DSCP priority mapping, Diff-Serv QoS, Priority Mark/Remark
	ACL distribution based on port and VLAN
	L2-L4 packet filtering function, matching the first 80 bytes message, and
ACL	provides ACL definitions based on source MAC address, destination
	MAC address, source IP address, destination IP address, IP protocol
	type, TCP/UDP port, TCP/UDP port range, VLAN, etc.
	Port based IEEE802.1X authentication
	SSL guarantees data transmission security
	Quad binding function of IP+MAC+VLAN+ports
	MAC address learning limit, MAC address black hole
0	Anti DoS attack, Port broadcast message suppression
Security	IP Source Guard function, AAA&RADIUS certification
	Hierarchical user management and password protection
	SSH 2.0 provides a secure encrypted channel for user login
	Host data backup mechanism, ARP intrusion detection function
	Port isolation, IP Source Guard, ARP message speed limit function
DHCP	DHCP Client, DHCP Snooping, DHCP Server
	Web network management (https)
	Link Layer Discovery Protocol(LLDP)
	Viewing CPU Instant Utilization Status
Management	NTP clock, One click restore, SNMP V1/V2C/V3
	Cable status check, Ping detection, System work log
	platform cluster management (LLDP+SNMP) Console/AUX
	Modem/Telnet/CLI command line configuration

	FTP, TFTP, Xmodem, SFTP file upload and download management
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

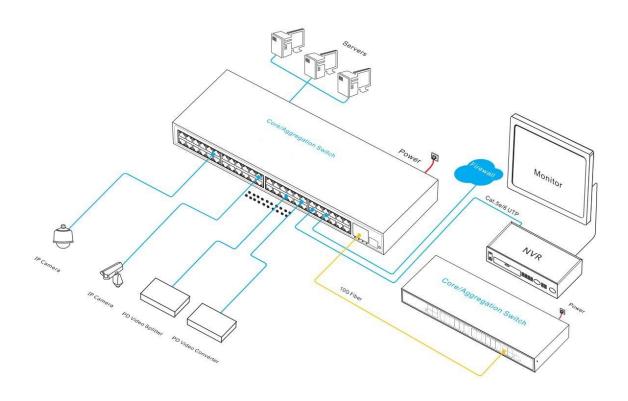
B. 48*10/100/1000M PoE ports

C. 4*10G SFP+ ports

D. Console port

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

APPLICATION



ORDERING INFORMATION

Description	Built-in Power Supply
L3 managed PoE switch with 48*10/100/1000M RJ45 ports and 4*1/10G SFP+ ports. Port 1-48 support IEEE802.3af/at PoE standard. Support 1U/19 inch rack installation.	600W

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

PACKING LIST

	Content	Qty	Unit
Packing List	52-port 10G uplink L3 managed PoE switch	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC