

24 Ports 10/100/1000Mbps+4 Ports SFP+4 Ports 10/100/1000Mbps

Managed POE Switch

【Product Brief】

32 Ports managed POE switches, the 10/100/1000 MBPS & 10 g industrial Ethernet photoelectric switch board, based on the BCM industrial-grade chips with high quality, the user can select photoelectric hybrid port configuration, access to the optical fiber media adopts modular design, provide 24 10/100/1000 adaptive electric mouth (+ POE), 8 / electricity of gigabit SFP optical port mouth, four integrated 10 g light mouth, to gather and core data exchange to provide enough bandwidth;Provides high capacity switching capability and supports ACL functionality based on three or four layers.

Perfect security control strategy and CPU protect policy improve fault tolerance, ensure the stable operation of the network and the load balance of the link;The device supports automatic DoS attack prevention and SNMP, IEEE 802.1, spanning tree and fast spanning tree protocol, link aggregation and other functions.

With simple and convenient installation and maintenance means and rich business features, help users to build a safe and reliable high-performance network. Mainly located in industrial parks, buildings, factories and mines, government agencies, residential broadband user network core or convergence layer;Can be widely used in small and medium-sized enterprises, Internet cafes, hotels, schools and other Ethernet access scenarios.

【Main Feature】

- Support 24 gigabit POE power ports +4 gigabit ports (photoelectric multiplexing) + 4 SFP ports +1 management port;
- Support IEEE802.3 / IEEE802.3 I/IEEE802.3 uIEEE802.3 ab/IEEE802.3 z, IEEE802.3 af/ats, store and forward;
- Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w);
- Ethernet port supports 10/100/1000M adaptive and POE functions;
- Flow control mode: IEEE 802.3x standard is adopted for full duplex, and Back pressure standard is adopted for half duplex;
- Support port auto flip (Auto MDI/MDIX);

- Acquisition memory transfer switching mechanism;
- All ports support wire-speed switching and support for jumbo frame transmission;
- Zero configuration feature, automatically supplied to adaptive devices;
- Panel indicator monitoring work state and help analysis of failure;

【Application】

- ◆ Metropolitan optical fiber broadband network: telecom, cable TV, network system integration,etc., according to network operators;
- ◆ Broadband private network: suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries;
- ◆ Multimedia transmission: integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications;
- ◆ Real-time monitoring: Real-time control of signals, images and data simultaneously transmitted;

【Specification】

Conventional parameters	
Product	Managed POE Switch
Model Number	MPE-1000-24-4G-4
Port definitions	24 gigabit POE power ports +8 gigabit optical ports (photoelectric multiplexing) + 4 SFP optical ports +1 management port
Network protocol	IEEE802.3AF (PoE) IEEE802.3AT (PoE+) IEEE 802.3,10Base-T IEEE 802.3u IEEE 802.3ab IEEE 802.3ae IEEE 802.3x IEEE 802.3ad IEEE 802.1ab-2005 , LLDP IEEE 802.w IEEE 802.1q IEEE 802.1p , QoS/CoS IGMP Snooping DHCP Snooping /GMRP
POE parameters	PoE Standard: Support IEEE802.3af /IEEE802.3at
	Port(Max) : 15.4 W (IEEE 802.3af)
	Port(Max) : 30 W (IEEE 802.3at)
	PoE : IEEE 802.3af/at Self adaptive
	POE Voltage Output: DC48-55V
	POE Power supply core:1/2+ ; 3/6-
Network Transmission medium	10BASE-T: Cat3,4,5 UTP(≤100 Meters) 100BASE-TX: Cat5 UTP(≤100 Meters) 1000BASE-TX: Cat5 UTP(≤100 Meters)
Optical fiber index	Multimode fiber: 850nm, 1310nm Transmission distance: 550m/2Km

	Single mode fiber:1310nm,1550nm Transmission distance: 20/40/60/80/100/120Km	
LED Indicator	PWR	Constantly lit: The device is powered Not lit: the device is not powered
	SYN	Blinking: The system is operating normally. No light: the system is not running
	POE	Steady on: Normal power supply No light: abnormal power supply
	LINK	Steady on: The link is normal. No light: the link is unreachable
	ACT	Steady on: no data transmission Shining: data transmission No light: the link is unreachable
Power Supply	Power Input: AC 110-264V ; Output DC52V7.69A Total Power : 400W	
Physical Dimension	Product Size (L×W×H): 445mm * 285mm * 45mm Package Size (L×W×H): 500mm * 350mm * 90mm Product Weight: 3.9kg Package Weight: 4.6kg	
Working environment	Working temperature: -20~50°C Storage temperature: -40~85°C Working humidity: maximum relative humidity 90%, no condensation Storage humidity: maximum relative humidity 95%, no condensation Working height: up to 10,000 feet (3,000 meters) Storage height: up to 10,000 feet (3,000 meters)	
Certificate	CE, FCC,ROHS,3C	
Mean time to failure	300,000 Hours	
Package List	1. Switch: 1 set 2. Instruction manual: 1PCS 3. Certificate and warranty card: 1PCS 4. Serial cable: 1 5. Power cord: 1 6. Hanging ears: a pair 7. User CD: 1	
Warranty	2 Years	
Technical indicators		
Backplane bandwidth	56.0Gbps	
Packet forwarding rate	41.6Mpps	
Processor	ARM® Cortex™-A9	
Flash capacity	8MB	
Memory capacity	1024M	
MAC address table	16K	
Queue buffer	64MB	
Remote upgrade	Supports version upgrade through the web and supports local version upgrade	
Layer 2 software function		
Port Management	Enable/Disable Port	
	speed、duplex、MTU Setup	
	flow-control Setup	
	Port information view	
Port mirroring	Supports port access and vlan mirroring	

Port rate limiting	Supports port rate limiting.The rate limit granularity is determined by the chip.
Port isolation	Support port isolation settings
Storm suppression	Support unknown unicast, unknown multicast,broadcast storm suppression
Link aggregation	Support static manual aggregation Support LACP dynamic aggregation
VLAN	Access
	Trunk
	hybrid
	Support port, protocol, MAC-based VLAN division
	Support GVRP dynamic VLAN registration
Voice VLAN	
MAC	Supports static addition, deletion
	MAC address learning limit
	Support dynamic aging time setting
Spanning Tree	Support 802.1d (STP)
	Support 802.1w (RSTP)
	Support 802.1s (MSTP)
IGMP-snooping	Supports static addition, deletion
Three-tier software and routing capabilities	
Interface configuration	Support SVI port
ARP	supports static ARP
	Support ARP aging time
VRRP	Supports VRRP route backup
ND	Supports IPv6_ND configuration
Routing function	Static routing
	RIP (V1/V2) / OSPF(V2) /BGP
	RIP/OSPF/BGP supports route authentication.
	RIP/OSPF/BGP supports route import and filtering.
Extensions	
ACL	Based on source MAC, destination MAC, protocol type, source IP, destination IP, L4 port number
	Support time-range time period management
QOS	Based on 802.1p (COS) classification
	Based on DSCP classification
	Classification based on source IP, destination IP, and port number
	Support SP, WRR, DRR scheduling strategies
	Support flow rate limit CAR
LLDP	Support LLDP link discovery protocol
User Settings	Add/Remove Users
Log	user login, operation, status, event log
Anti-attack	DOS defense
	Supports CPU protection and limits the rate of sending cpu packets.
	ARP binding (IP, MAC, PORT binding)
Network diagnostics	Support ping, telnet, trace
System Management	Device Reset, Configuration Save/Restore, Upgrade Management, Time Settings, etc.
Management function	
CLI	Support serial port command line management

TELNET	TELNET supports telnet remote management
WEB	Supports Layer 2 settings, Layer 2 and Layer 3 view

【Product renderings】

