48+4TF 10G uplink three-layer network managed POE switch



48 10/100/1000M POE network

IPM-MANAGER-4800S



4 1/10G uplink SFP+ optical port slots



1 Console management port





Specifications

Exchange

Packet forwarding rate: 131Mpps.

MAC address:32K

Jumbo

Network management

Input voltage: AC100-240V 50/60Hz, 500/800W

Dimensions: 440*290*45mm

Weight: 5kg

[Product Description]

IPM-MANAGER-4800Sseries10G uplink three-layer network managed PoE switch, have48indivualthousandmeganetmouth+4 10G uplink SFP+ optical port slots, among which 1-48The port supports IEEE 802.3af/at standard PoE power supply, and the single-port PoE power reaches 30W. IPM-MANAGER-4800 All service ports support 4KV electrostatic lightning protection. As a PoE power supply device, it can automatically detect and identify powered devices that meet standards and power them through network cables. It can supply power to POE terminal equipment such as wireless AP, network camera, Internet phone, building visual access control intercom, etc. through the network cable. It meets the network environment that requires a high-density PoE power supply and is suitable for hotels, campuses, parks, supermarkets, banks, scenic spots, factory dormitories, and SMB small and medium-sized enterprises to build cost-effective networks.

IPM-MANAGER-4800S has L3 network management functions, supports IPV4/IPV6 static/dynamic route forwarding, supports complete security protection mechanisms, complete ACL/QoS policies, and rich VLAN functions, making it easy to manage and maintain. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and ERPS (<20ms) ring network protocols to improve link backup and network reliability. When a one-way network fails, communications can be quickly restored to ensure important Transmission of uninterrupted communications. According to actual application needs, PoE power supply management, port flow control, VLAN division, QoS, LACP, IGMP DHCP, and other application service configurations are performed through network management methods such as Web, CLI, SNMP, and Telnet.

[Product Features]

- Single-port PoE power up to 30W, if/at adaptive, widely compatible with various network terminals, supports PoE network management, remote POE port restart, and real-time power status viewing.
- ➤ 4 optical ports uplink port, Optical fiber long-distance transmission, adapt to various ring network/chain network cascading and expansion make networking easier.
- Full Gigabit high-speed transmission, 10 Gigabit bandwidth uplink, high-bandwidth transmission is stable and guaranteed, supports per-port rate and flow control, and achieves10M/250 meters long-distance transmission, easily solving long-distance communication and power supply problems, to meet different user needs.
- > Enterprise-level high-bandwidth switching chips, high backplane, and large cache, reduce network congestion.
- Supports automatic learning and updating of MAC addresses, and automatic port flip (Auto MDI/MDI-X) function.
- > The service port supports 4KV anti-surge (lightning protection) protection, PoE short circuit and overload protection, making it safer and more secure to use.;
- Fine steel forged metal shell, shielding interference, strong heat dissipation, strong, rust-proof and more durable;

[Software Features]

Strong business capabilities

- > Supports 128 entries of IPV4/IPV6 static/dynamic routing, supports ARP protocol, maximum 1024 entries, and supports IPV4/IPV6 management.
- > Flexible port bandwidth and traffic configuration, optical port DDMI digital diagnostic function, easily achieve refined network management.
- Supports IEEE 802.1Q VLAN, protocol VLAN, and Qin VLAN. Users can flexibly divide VLANs according to needs.
- Supports QoS, three priority modes based on port, 802.1P-based and DSCP-based, and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Supports ACL to filter data packets by configuring matching rules, processing operations, and time permissions to provide flexible security access control strategies.
- Supports IGMP V1/V2/V3 multicast protocols and IGMP SnoopingV1/V2/V3 to meet multi-terminal high-definition video surveillance and video conferencing access requirements.
- Supports STP/RSTP/MSTP production tree protocol and ERPS fast ring network protocol to eliminate layer 2 loops and achieve link backup.
- Supports static aggregation and dynamic aggregation (LACP), effectively increasing link bandwidth, achieving load balancing, link backup, and improving link reliability.

Complete Security Features

- Support WEB interface user authentication
- Supports CPU protection to prevent attacks by large data flows on the switch itself.
- ➤ Support 802.1x authentication, Remote RADIUS, TACACS+ authentication
- Hardware supports IP ACL, MAC, ACLPort filtering function address binding, Port-based IP+MAC+Vlan+Port multiple binding function.
- > Supports DHCP Snoopingv1/v2/v3 function, port isolation function, and port broadcast storm suppression function.

Convenient operation and maintenance management

- Supports diverse management and maintenance methods such as Web network management, CLI command line (Console, Telnet), SNMP (V1/V2c/V3), etc.
- > Supports HTTP/HTTPS, SSH and other encryption methods, making management more secure.
- Supports HTTP/TFTP for firmware update/upgrade, supports configuration file

- upload/download, and restores system configuration with one click.
- > Supports RMON, system logs, and port traffic statistics to facilitate network optimization and transformation.
- > Supports LLDP, which facilitates the network management system to query and determine the communication status of the link.
- > Supports CPU monitoring, memory monitoring, Ping detection, and cable detection.

[Technical Specifications]

model		IPM-MANAGER-4800S			
Port (Port Characteristics				
fixed port	Downstre am port	48 10/100/1000Base-T RJ45 network ports			
	Upstream port	4 1/10G SFP+ optical port slots			
	Manageme nt port	1 Console port (115200, 8, N, 1)			
	PoE port	1-48 supports af/at standard PoE power supply, transmission distance 100-250 meters			
Network port characteristics		1-48 mouths10/100/1000M adaptive, full/half duplexMDI/MDI-XAdaptive			
twisted pair transmission		10BASE-T: Cat3, 4, 5 UTP(≤250 meters) 100BASE-TX:Cat5 or later UTP(≤100 meters) 1000BASE-T:Cat5eor later UTP(≤100 meters)			
Optical port characteristics		Gigabit SFPOptical fiber interface is not equipped with optical modules by default and needs to be purchased separately (optional order mode/multi-mode, single fiber/double fiber optical modules, LC/SC)			
Optical cable		Multimode:850nm/0~550M, 50 μ m/125 μ m&62. 5 μ m/125 μ m Single mode:1310nm/0~40KM, 1550nm/0~120KM.9.5 μ m/125 μ m			
Exch	ange chip	parameters			
Network management type		L3 network management			
Network protocol		IEEE802.3 10BASE-T; IEEE802.3i 10Base-T IEEE802.3u 100Base-TX IEEE802.3xFlow Control IEEE802.3ab1000Base-T			
Netwol	k protocor	IEEE802.3z1000Base-X IEEE 802.3ad port trunk with LACP IEEE 802.1D Spanning Tree protocol			

	IEEE 802.1w Rapid Spanning Tree protocol
	IEEE 802.1s Multiple Spanning Tree protocol
	IEEE 802.1p Class of service
	IEEE 802.1Q VLAN tagging
	IEEE 802.1x Port Authentication Network Control
	IEEE 802. 1ab LLDP
	IEEE 802.3af DTE Power via MDI
	IEEE 802.3at DTE Power via MDI
CPU	Dual core 1GMHz
DRAM	2Gbits
FLASH	256Mbits
Forwarding mode	Store and forward (full line speed)
Backplane	, , , , ,
bandwidth	216Gbps (non-blocking)
Packet	
forwarding	131Mpps
rate@64byte	
MAC address table	32K
Packet	
forwarding cache	16Mbits
jumbo frame	12Kbytes
	Power Indicator:PWR (Green); System running light: SYS (green); Network
indicator light	indicator: L/A (green), PoE indicator: PoE (yellow); Optical port indicator:
_	SFP (green)
onekey reset	
switch	1, long press and release for 6 seconds to restore factory settings
MTBF	100,000 hours
POE and power	r characteristics
POE port	Ports 1-48 support IEEE802.3af/at standard POE power supply
-	Supports PoE on/off and restart for each port, PoE working status display for
PoE management	each port, real-time PoE power display for each port, timing scheduling function
	for each port
Power supply pin	Default 1/2(+), 3/6(-) 4-core power supply
Maximum PoE power	* ***
of single port	30W, standard IEEE802.3af/at
Total	
power/input	500W (AC100-240V)
voltage	
Machine power	
consumption	Standby power consumption: <25W; full load power consumption: <500W
Supporting power	
supply	Built-in AC switching power supply AC: 100~240V 50-60Hz 6.0A
Physical specif	ications
i nysical specii	

Operating	
temperature/humi	-20° C∼+55° C; 5%∼90% RH non-condensing
dity	
Storage	
temperature/humi	-40° C~+75° C; 5%~95% RH non-condensing
dity	
Appearance size	
(L*W*H)	440*290*45mm
Net weight/gross	
weight	<5 kg / <5.5 kg
Installation	
method	Desktop, rack mount
Certification an	nd Warranty
Lightning	- Trailing
protection/prote	Port lightning protection: 4KV 8/20us; protection level: IP30
ction level	Tort fighthing protection. Inv 0/2003, protection level. from
Safety	
certification	CE, FCC, RoHS, CCC
Warranty	2Year
-	gement features
Software mana	
	Support IEEE802.3x flow control (full duplex), half-duplex back pressure flow
	control
	Supports forced port mode and rate
	Support broadcast stormand port storminhibition
port	Supports port traffic rate limiting with a minimum granularity of 16Kbps, up to
	1Gbps
	Support port real-time traffic management (Flow Interval)
	Supports jumbo frame size control, supporting up to 16K data packets
	Support optical port DDMI digital diagnostic function
	Supports L3 network management function, IPv4/IPv6 static/dynamic routing, and
	IPv4/IPv6 dual-stack management
IP routing	Support RIPv1/v2, RIPng
	Support OSPFv1/v2
	Supports ARP protocol, maximum entries 1024
	Support port-based VLAN (4K), IEEE802.1q
	Supports protocol-based VLANs
	Supports VLAN based on MAC address
VLAN	Support Voice VLAN
	Supports three types of port configuration: Access, Trunk, and Hybrid
	Support QinQ configuration
	Support GVRP VLAN protocol
	Support static aggregationHarmonystate aggregation(LACP)
Port aggregation	Support maximum26Aggregation group, each aggregation group supports up to 8
	ports
	I .

	Support loop protection function
	Support loop protection function Support STD/DSTD/MSTDeponping tree protected
Ring network	Support STP/RSTP/MSTPspanning tree protocol
function	Supports ERPS ring network (single ring, multi-ring, intersecting ring and
	tangent ring configuration), the ring network self-healing time is less than 20ms
1+:+	Support IGMP Snooping v1/v2/v3, supports up to1024multicast group
multicast	Support multicast VLAN
	Support MVR (Multicast LAN Registration)
	Supports bidirectional traffic mirroring of basic ports
mirror	Supports bidirectional traffic mirroring of basic ports
	Supports 1-to-many mirroring
	Supports up to 4 port sessions
	Supports priority based on port, 802.1P and DSCP/ToS, Supports 8 output queues
0.6	per port
QoS	Supports four priority scheduling modes: Equ, SP, WRR, and SP+WRR
	Support priority mark Mark/Remark
	Supports flow-based rate limiting, packet filtering, and redirection
	Supports L2~L4 packet filtering function, which can match the first 80 bytes
A CV	of the message and provide based on source MAC address, destination MAC address,
ACL	source IP address, destination IP address, IP protocol type, TCP/UDP port, and
	TCP/UDP port range , VLAN, etc. define ACL.
	Supports issuing ACL based on port and VLAN
	Support user hierarchical management and password protection
	Support port-based IEEE802.1X authentication
	Support AAA&RADIUS andTACACS+Certification
	Supports MAC address learning number limit
	Supports MAC address blackhole and address binding
	Support SSH 2.0, providing secure encrypted channel for user login
security	Support port isolation
features	Support ARP message rate limiting function
	Support IP source address protection
	Support ARP intrusion detection function
	Support anti-DoS attack
	Support port broadcast message suppression
	Support host data backup/restore mechanism
	IP+MAC+VLAN+portfour yuanBinding function
nwan .	Support DHCPServe
DHCP	Support DHCP Client
	Support DHCP Snoopingv1/v2/v3
	Supports diverse management and maintenance such as Web network management, CLI
Management and	command line (Console, Telnet), SNMP (V1/V2c/V3), etc. Support WEB network
maintenance	management (supportHTTP/HTTPS)
	Support HTTP and TFTP file upload/download management
	Support RMON 1, 2, 3 and 9 groups

	Support one clickreset
	Support NTP clockand local clock
	supportlocal log andSystem log(SYSLOG)
	Support Ping detection
	Support cable status check
	Supports real-time CPU utilization status viewing
	Supports link layer discovery protocol LLDP
	Supports unified management of NMS platform clusters (LLDP+SNMP)
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher
System	Category 5 and above Ethernet cables;
Requirements	TCP/IP network adapter and operating system (such as Microsoft Windows, Linux
	or Mac OS)