

BI9148PGM4TF - 600 WS 10G UPLINK MANAGED PoE SWITCH



Ideal for:



Telecom



Hotels & Resorts



Universities



Healthcare



Public Places



Airport



Transport



Industries

OVERVIEW

The BI9148PGM4TF-600WS is a 10G uplink managed industrial PoE fiber switch. Featuring 48 10/100/1000 Base-T RJ 45 ports and 4 10G SFP+ fiber ports. It supports IEEE 802.3af/at PoE standards, providing up to 30W per port, making it ideal for powering PoE devices like wireless APs, webcams, and VoIP systems. Designed for industrial environments such as transportation, energy, and mining. It offers robust L3 network management, VLAN support, security features, and Redundancy protocols (STP/RSTP/MSTP/ERPS) for enhanced network reliability. Management options include web, CLI, SNMP, and Telnet.

FEATURES

- Gigabit access, 10 G Uplink
- Intelligent PoE power supply function
- Security
- Strong business processing capability
- Stable and reliable
- Easy operation and maintenance management

PICTURE



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Model	BI9148PGM4TF-600WS
Interface Characteristics	
Fixed Port	2*AC100-240V input ports Alarm switch port (FAULT) 1*Console port (115200, N, 8,1) 4*1/10G uplink SFP+ ports (Data) 48*10/100/1000Base-T PoE ports (Data/Power) 1 group of DC48-57V input ports (Support reverse polarity protection function)
Ethernet Port	Port 1-48 support 10/100/1000Base-T 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)
Optical Fiber Port	Gigabit SFP optical fiber port and 10G SFP+ optical fiber port, default no Include optical modules (optional order single-mode / multi-mode, singlefiber / dual fiber optical module. LC)
Optical Fiber Port Expansion	Support Turbo overclocking 2.5G optical module expansion and ring network
Optical Cable/Distance	Multi-mode: 850nm / 0-500M(1G), 850nm / 0-300M(10G), Single-mode: 1310nm / 0-40KM, 1550nm / 0-120KM.
Chip Parameter	

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Network	L3
Management Type	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX 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 Rate@64byte	131Mpps
CPU	Dual core 1GHz
DRAM	2GB
FLASH	256MB
MAC	32K
Buffer Memory	16MB
Jumbo Frame	12KB
LED Indicator	Power: PWR(Green), System: SYS (Green), Network:Link (Yellow), PoE: PoE (Green), Fiber 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 IEEE802.3af/at
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
Total PWR / Input	2*600W(AC100-240V)

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Voltage	
Power Consumption	Standby<35W, Full Load<600W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 6.6A*2
Power Input Port	1 group of DC48-57V input port Alarm switch port, 1 group of AC power input ports Dual input power port design: AC power supply priority, support Anti-reverse protection, power-off automatic switching DC connection.
Physical Parameter	
Operation TEMP / Humidity	-40~+80°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C, 5%~95% RH Non condensing
Dimension (L*W*H)	440*378*44.5mm
Net /Gross Weight	<6.8kg / <7.5kg
Installation	Desktop, 19 inch 1U cabinet
Certification & Warranty	
Lightning Protection	Lightning protection: 6KV 8/20us, Protection level: IP30 IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz

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	IEC61000-4-12/18(shockwave):CM 2.5kV,DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1sFCC Part 15/CISPR22(EN55022):Class B IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock)IEC60068-2-32 (free fall)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
Warranty	5 years, lifelong maintenance.
Network Management Features	
Interface	IEEE802.3x flow control (full duplex)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 minimumgranularity of 16Kbps and a maximum of 1Gbps Port EEE Green Ethernet Energy-Saving configuration and status view Jumbo frame configuration, the largest 12000byte
Layer 3 Features	ARP protocol, 1024 entries at most RIPv1/v2, RIPng , OSPFv1/v2, OSPFv3 Support L3 network management function, support 128 entries of IPv4/IPv6 static routes, and dual stack management
VLAN	VLAN based on MAC, VLAN based on the protocol Port configuration of Access, Trunk, Hybrid. GVRP VLAN protocol

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	(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ configuration
Port Aggregation	LACP dynamic aggregation, Static aggregation Max 26 aggregation groups and maximum 8 ports per group.
Spanning Tree	STP BPDU Guard, BPDU filtering and BPDU forwarding STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
ERPS Ring Network	Support ERPS ring network, ring network self-healing time is less than 20ms, ITU-T G.8032
Multicast	MLD Snooping, IGMP Snooping, Multicast VLAN 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	ACL distribution based on port and VLAN L2-L4 packet filtering function, matching the first 80 bytes message, and 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.
Security	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 Anti DoS attack, Port broadcast message suppression

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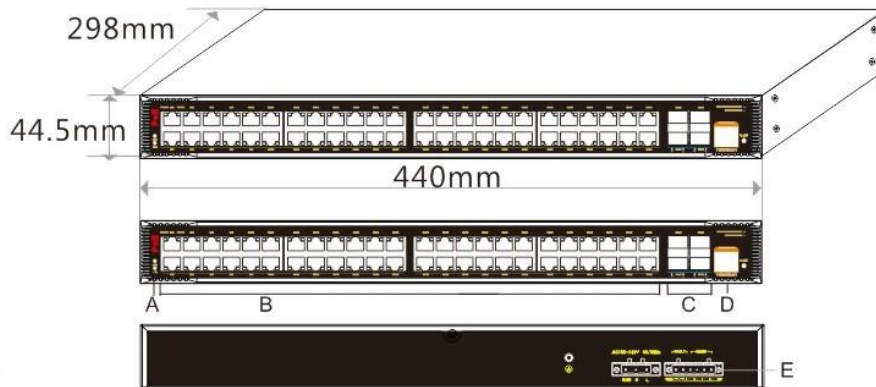


	<p>IP Source Guard function, AAA&RADIUS certification Hierarchical user management and password protection SSH 2.0 provides a secure encrypted channel for user login</p> <p>Host data backup mechanism, ARP intrusion detection function</p> <p>Port isolation, IP Source Guard, ARP message speed limit function</p>
DHCP	DHCP Client, DHCP Snooping, DHCP Server
Management	<p>Web network management (https) Link Layer Discovery Protocol(LLDP) Viewing CPU Instant Utilization Status</p> <p>NTP clock, One click restore, SNMP V1/V2C/V3 Cable status check, Ping detection, System work logNMS platform cluster management (LLDP+SNMP)</p> <p>Console/AUX Modem/Telnet/CLI command line configuration</p> <p>FTP, TFTP, Xmodem, SFTP file upload and download management</p>
System	<p>Category 5 Ethernet network cable</p> <p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42or higher, Microsoft Internet Explorer10 or later</p> <p>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network</p>

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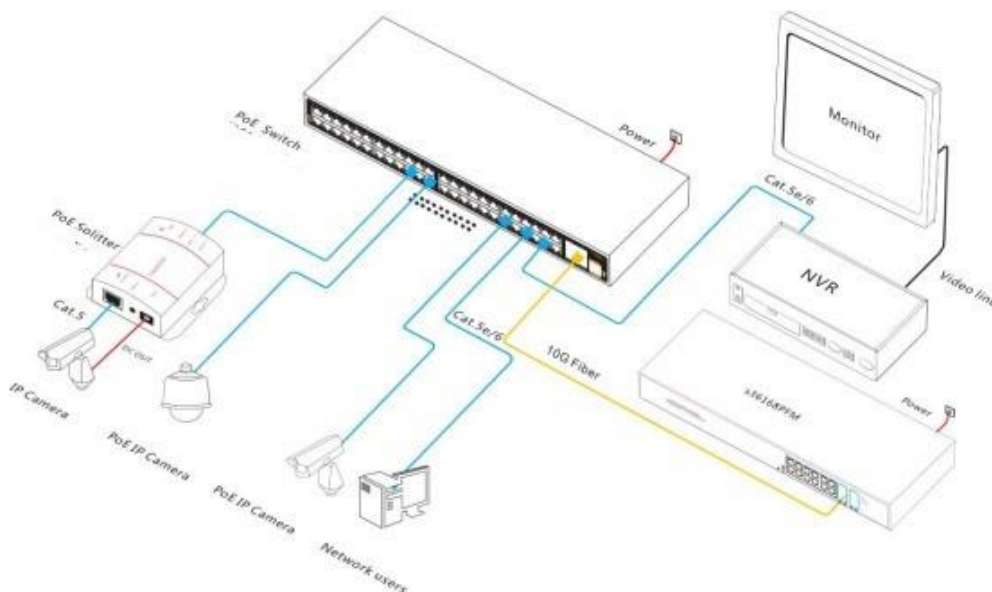


DIMENSION



- A. Working indicator
- B. 48* PoE ports
- C. 4*1/10G SFP+ ports
- D. Console port
- E. AC/DC input ports

APPLICATION



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PACKING LIST

	CONTENT	QTY	UNIT
Packing List	52-port 10G uplink managed industrial PoE switch	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kits	1	SET
	User Guide	1	PC



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