

### **Product Datasheet**

# 14-port Gigabit Managed Industrial PoE Switch

(GWS-IPS33148PFM)



### **OVERVIEW**

The GWS-IPS33148PFM is a Gigabit managed industrial PoE switch independently developed by GWS. It has 4\*100/1000Base-X SFP fiber ports and 10\*10/100/1000Base-T adaptive RJ45 ports. Port 1-8 can support IEEE 802.3 af/at PoE standard and the single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize power-compliant devices that meet the standard and supply power through the network cable. It can supply power to PoE terminal equipment such as wireless AP, IP camera, VoIP, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and industrial scenes such as shipping, metallurgy, and green energy construction forming a cost-effective, stable, and reliable communication network.



The GWS-IPS33148PFM has L2+ network management function, supports IPV4/ IPV6 management, static route forwarding, security protection mechanism, ACL/QoS policy, and VLAN, and is easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP/MSTP(<50ms) and (ITU-T G.8032) ERPS(<20ms) to improve link backup and network reliability. When a 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

- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit RJ45 port and SFP fiber port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

#### ■ Smart PoE power supply

- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.
- Comply with IEEE 802.3 af/at PoE standard, automatically identify PoE devices for power supply, and not damage non-PoE devices.
- ◇ PoE port support priority. When the remaining power is insufficient, priority is given to ensuring the power supply of high-priority ports to avoid equipment overload.
- 8\*10/100/1000Base-T RJ45 ports support PoE power, meeting the PoE power
  requirements of security monitoring, industrial automation systems, wireless coverage
  and other scenarios.

#### Strong business processing ability

♦ Support ERPS ring network and STP/RSTP/MSTP to eliminate layer 2 loops and



- realize link backup.
- Support IEEE802.1Q VLAN, Users can flexibly divide VLAN, Voice VLAN, and QinQ configuration according to their needs.
- Support static and dynamic aggregation to effectively increase link bandwidth, realize load balancing, link backup, and improve link reliability.
- Support QoS, port-based, 802.1P-based and DSCP-based three priority modes and four queue scheduling algorithms: Equ, SP, WRR, and SP+WRR.
- Support ACL to filter data packets by configuring matching rule processing operations and time permissions, and provide flexible security access control policies.
- ♦ Support IGMP V1/V2/V3 multicast protocol, IGMP Snooping meets multi-terminal high-definition video surveillance and video conference access requirements.

#### Security

- ♦ Port isolation and storm control.
- ♦ IP+MAC+port+VLAN quadruple flexible combination binding function.
- 802.1X authentication provides authentication functions for LAN computers and
   controls the authorization status of controlled ports according to the authentication
   results.

#### Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, and PoE.
- ♦ Low power consumption, aluminum alloy housing, and excellent heat dissipation to ensure stable operation of the switch.

### ■ Easy O&M management

- ◇ CPU monitoring, memory monitoring, Ping detection, and cable detection.
- ♦ HTTPS, SSLV3, SSH V1/V2, and other encryption methods make management more secure.
- RMON, system logs, and port traffic statistics facilitate network optimization and



transformation.

- ♦ LLDP facilitates the network management system to query and determine the communication status of the link.
- Web network management, CLI (Console, Telnet), SNMP (V1/V2/V3), Telnet and other diversified management and maintenance methods.

### **TECHNICAL SPECIFICATION**

Model	GWS-IPS33148PFM	
Interface Characteristics		
	Power off alarm switch port (FAULT)	
	1*Console RS232 port (115200, N, 8,1)	
Fixed Port	4*100/1000Base-X uplink SFP ports (Data)	
FIXED FOIL	2*10/100/1000Base-T uplink RJ45 ports (Data)	
	8*10/100/1000Base-T PoE ports (Data/ Power)	
	2 set V+, V- redundant DC power port (6P industrial Phoenix terminal)	
Ethernet Port	Port 1-10 can support 10/100/1000Base-T auto-sensing, full/ half duplex	
Ethernet Port	MDI/ MDI-X self-adaption	
	10BASE-T: Cat3,4,5 UTP (≤100 meters)	
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)	
	1000BASE-T: Cat5e or later UTP (≤100 meters)	
Optical Fiber Port	Gigabit optical fiber port, default no include optical module (optional	
Optical Fiber Fort	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/ Distance	Multi-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550nm/	
Optical Gabie/ Distance	0-120km.	
Chip Parameter		
Network Management	L2+	



IEEE 802.3 10BASE-T, IEEE 802.3 110Base-T, IEEE 802.3 110Base-TX, IEEE 802.3 1100Base-TX, IEEE 802.3	Туре		
Forwarding Mode Store and Forward (Full Wire Speed)  Switching Capacity 52Gbps (non-blocking)  Forwarding Rate@64byte 20.83Mpps  CPU 416M  DRAM 1G  FLASH 128M  MAC 8K  Buffer Memory 6M  LED Indicator Power Suyply  PoE Port Port 1-8  PoE Port Port 1-8  PoE working status display, Port PoE output priority configuration Port PoE output power distribution, PoE on/off, af/at power distribution  Power Supply Pin 1/2 (+) 3/6 (-)  Max Power Per Port Supply No, optional 48V/120W or 48V/240W industrial power supply  Power Supply No, optional 48V/120W or 48V/240W industrial power supply  Physical Parameter		IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX,	
Switching Capacity 52Gbps (non-blocking)  Forwarding Rate@64byte 20.83Mpps  CPU 416M  DRAM 1G  FLASH 128M  MAC 8K  Buffer Memory 6M  Jumbo Frame 9.6K  LED Indicator Power/ System: SYS (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber port: L/A(Green)  Yes, press and hold the switch for 10 seconds and release it to restore the factory settings  PoE& Power Supply  PoE Port Port Port 1-8  PoE power supply total power limit configuration Power delay start, PoE work and time scheduling Port PoE working status display, Port PoE output priority configuration Port PoE output power distribution, PoE on/off, af/at power distribution  Power Supply Pin 1/2 (+) 3/6 (-)  Max Power Per Port 30W, IEEE 802.3 af/at  Power Consumption Standby<10W, Full load af<120W, at<240W  Input Voltage/ Interface DC48-57V, 6P industrial Phoenix terminal, support anti-reverse protection.  Power Supply No, optional 48V/120W or 48V/240W industrial power supply  Physical Parameter	Network Protocol	IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X, IEEE 802.3x	
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Buffer Memory  Jumbo Frame  9.6K  Power/ 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  PoE power supply total power limit configuration Power delay start, PoE work and time scheduling Port PoE working status display, Port PoE output priority configuration Port PoE output power distribution, PoE on/off, af/at power distribution  Power Supply Pin  1/2 (+) 3/6 (-)  Max Power Per Port  30W, IEEE 802.3 af/at  Power Consumption  Input Voltage/ Interface  DC48-57V, 6P industrial Phoenix terminal, support anti-reverse protection.  Power Supply  Physical Parameter	FLASH	128M	
Jumbo Frame  9.6K  LED Indicator  Power/ System: SYS (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber port: L/A(Green)  Yes, press and hold the switch for 10 seconds and release it to restore the factory settings  PoE& Power Supply  PoE Port  PoE power supply total power limit configuration Power delay start, PoE work and time scheduling Port PoE working status display, Port PoE output priority configuration Power Supply Pin  1/2 (+) 3/6 (-)  Max Power Per Port  30W, IEEE 802.3 af/at  Power Consumption  Input Voltage/ Interface  DC48-57V, 6P industrial Phoenix terminal, support anti-reverse protection.  Power Supply  Physical Parameter	MAC	8K	
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Physical Parameter	Input Voltage/ Interface	DC48-57V, 6P industrial Phoenix terminal, support anti-reverse protection.	
	Power Supply	No, optional 48V/120W or 48V/240W industrial power supply	
Operation Temp/ Humidity -40~+80°C, 5%~90% RH Non condensing	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)	165*148*54mm		
Net /Gross Weight	1.1kg / 1.3kg		
Installation	Desktop, 35mm DIN Rail		
Certification & Warranty			
	IEC61000-4-3 (RS):10V/m (80-1000MHz)		
	FCC Part 15/CISPR22 (EN55022): Class A		
	IEC61000-6-2 (Common Industrial Standard)		
	IEC61000-4-9 (Pulsed magnet field): 1000A/m		
	IEC61000-4-10 (Damped oscillation): 30A/m 1MHz		
	IEC61000-4-12/18 (Shockwave): CM2.5kV, DM1kV		
Lightning Protection	Protection level: IP40, Lightning protection: 6KV 8/20us		
	IEC61000-4-4(EFT): Power cable: ±4kV, data cable: ±2kV		
	IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s		
	IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge		
	IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz)		
	IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s-3s		
	IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV		
Machanical Proportion	IEC60068-2-6 (Anti Vibration), IEC60068-2-27 (Anti Shock),		
Mechanical Properties	IEC60068-2-32 (Free Fall)		
Certification	CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS		
Warranty	5 years, lifelong maintenance.		
Network Management Fea	ature		
	Port green Ethernet Energy-saving setting		
	Broadcast storm control based on port speed		
Interface	Port temperature protection setting, IEEE 802.3x flow control (Full duplex)		
	The speed limit of the message flow in the access port, mini particle size is		
	64Kbps.		
L3 Feature	ARP protocol max 1024 entries		

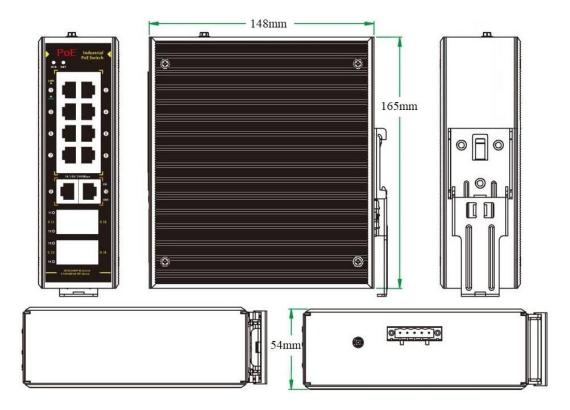


	Static routing/ default routing max 128 entries	
	L2+ network management, IPV4/IPV6 dual stack management	
	L3 routing and forwarding, and communication between different network	
	segments and different VLAN	
	Access, Trunk, and Hybrid port configurations	
VLAN	Port-based VLAN (4K), IEEE802.1q, QinQ configuration	
	Voice VLAN, Protocol-based VLAN, MAC address-based VLAN	
Port Aggregation	LACP, Static aggregation, Max 7 aggregation groups and 8 ports per group.	
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	
Ding Naturals Protocol	G.8032 (ERPS), Recovery time less than 20ms. 250 Ring at most, Max 250	
Ring Network Protocol	devices per ring.	
Multicast	MLD Snooping, Multicast VLAN, IGMP Snooping v1/v2/v3, Max 1024	
Municasi	multicast groups, Fast log out	
Port Mirroring	Bidirectional data mirroring based on port	
	Flow-based Rate Limiting, Flow-based redirection	
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR)	
QuS	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.	
	Mac black holes, IP source protection	
	IEEE802.1X & MAC address authentication	
Security	Broadcast storm control, Backup for host datum	
Coounty	SSH 2.0, SSL, Port isolation, ARP message speed limit	
	User hierarchical management and password protection	
	Anti-DoS attack, AAA & RADIUS & TACACS+ certification	



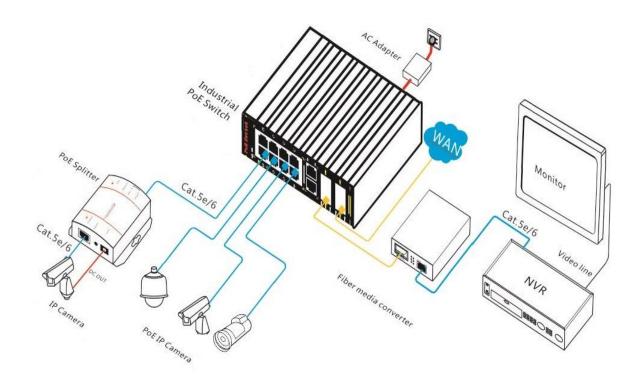
	IP-MAC-VLAN-Port binding, ARP inspection, MAC learning limit	
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay	
	NTP clock, One click restore, SNMP V1/V2/V3	
	System work log, Web network management (https)	
	Ping detection, Link Layer Discovery Protocol (LLDP)	
Management	GWS-NMS platform cluster management (LLDP+SNMP)	
	Cable status check, Viewing CPU Instant Utilization Status	
	Console/ AUX Modem/ Telnet/ CLI command line configuration	
	FTP, TFTP, Xmodem, SFTP file upload and download management	
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,	
	Cat5 and above Ethernet cable	
System	TCP/IP, network adapter, and network operating system (such as Microsoft	
	Windows, Linux, Mac OS X) installed on each computer in the network Cat5	
	and above Ethernet cable	

## **DIMENSION**





## **APPLICATION**



## **ORDERING INFORMATION**

Model	Description	Recommended	
Model	Description	Power Supply	
	L2+ managed industrial PoE switch with 4*100/1000M		
	uplink SFP fiber ports and 10*10/100/1000M RJ45		
CWC IDC22440DEM	ports. Port 1-8 can support IEEE 802.3 af/at PoE	400\\\/040\\\	
GWS-IPS33148PFM	standard. It can support dual DC redundant power	120W/240W	
	input (Phoenix terminal connection) and DIN rail		
	mounting.		
Note: The ontical module and power supply are not included and need to be purchased		ırchased	

**Note:** The optical module and power supply are not included and need to be purchased.



## **PACKING LIST**

	Content	Qty	Unit
Packing List	14-port Gigabit managed industrial PoE switch	1	Set
	RJ45-DB9 Adapter Cable	1	PC
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

## **OPTICAL MODULE**

Product	Model	Description	
	2630-G	Industrial SFP optical module, 1.25G multi-mode dual fiber 850nm, transmission distance: 550m, LC interface. Support DDM function and hot plugging.	PC
	2632-G	Industrial SFP optical module, 1.25G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface. Support DDM function and hot plugging.	PC
1.25G	2612-T-G	Industrial SFP optical module, 1.25G single-mode single fiber  TX1310nm/ RX1550nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
Optical Module	2613-R-G	Industrial SFP optical module, 1.25G single-mode single fiber  TX1550nm/ RX1310nm, transmission distance: 20km, LC interface. support DDM function and hot plugging.	PC
	2612-T-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber  TX1310nm/ RX1550nm, transmission distance: 20km, SC interface. support DDM function and hot plugging.	PC
	2613-R-G-SC	Industrial SFP optical module, 1.25G single-mode single fiber  TX1550nm/ RX1310nm, transmission distance: 20km, SC interface. support DDM function and hot plugging.	PC



Power	2633	1.25G SFP optical module transfers to 10/100/1000M RJ45 port.	PC	
Module				

## **POWER SUPPLY**

Product	Model	Description	Unit
120W DIN Rail Industrial Power Supply	GWS-DP120-48	DIN Rail 120W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 2.3A Output Voltage: DC48V, 2.5A Operation Temperature: -40℃ to +70℃	PC
240W DIN Rail Industrial Power Supply	GWS-DP240-48	DIN Rail 240W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 3.0A Output Voltage: DC48V, 5.0A Operation Temperature: -40℃ to +70℃	PC

## **RELATED PRODUCT**

Model	Description
	L2+ managed industrial PoE switch with 4*10/100/1000M RJ45 ports and
GWS-IPS33064PFM	2*100/1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at
GVV3-1P333004PFIVI	PoE standard. It can support dual DC redundant power input (Phoenix
	terminal connection) and DIN rail mounting.
	L2+ managed industrial PoE switch with 4*10/100/1000M RJ45 ports and
CWC IDC22004DEM	4*100/1000M uplink SFP fiber ports. Port 1-4 can support IEEE 802.3 af/at
GWS-IPS33084PFM	PoE standard. It can support dual DC redundant power input (Phoenix
	terminal connection) and DIN rail mounting.
	L2+ managed industrial PoE switch with 8*10/100/1000M RJ45 ports and
CWC IDC22400DEM	2*100/1000M SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE
GWS-IPS33108PFM	standard. It can support dual DC redundant power input (Phoenix terminal
	connection) and DIN rail mounting.



GWS-IPS33168PFM

L2+ managed industrial PoE switch with 8\*10/100/1000M RJ45 ports and 8\*100/1000M uplink SFP fiber ports. Port 1-8 can support IEEE 802.3 af/at PoE standard. It can support dual DC redundant power input (Phoenix terminal connection) and DIN rail mounting.

## **CONTACT US**



Tel: 0086-752-3397806

WeChat: HZGWS--PoE

Email: hzgws@hzgws.com

Skype: hzgws@hzgws.com

Website: www.hzgws.com

Address: Building 3, Phase II, Xinghe Artificial Intelligence Industrial Park, No.333

Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou

