

Product Datasheet

26-port Gigabit Managed Industrial PoE Switch

(GWS-IPS33026PFM)



OVERVIEW

The GWS-IPS33026PFM is a Gigabit managed industrial PoE fiber switch independently developed by GWS. It has 24*10/100/1000Base-T adaptive RJ45 ports and 4*100/1000Base-X uplink SFP fiber ports (including 2 combo ports). Port 1-24 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 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, IP cameras, VoIP phones, and industrial sensors through a network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy, and green energy, industrial scenes such as construction setting up a cost-effective and stable communication network.

The GWS-IPS33026PFM has L2+ network management function, supports IPV4/ IPV6 management, static routing forwarding, complete security protection mechanism, perfect ACL/ QoS strategy, and rich VLAN functions, and is easy to manage and maintain. Support various network redundancy protocols STP/ RSTP/ MSTP (< 50ms) and (ITU-R T G. 8032) ERPS (< 20ms) to improve link backup and network reliability. When the one-way network fails, it can quickly restore communication and ensure the uninterrupted communication of important



transmission. PoE power supply management, port flow control, VLAN division, QoS, and other functions are configured according to the actual application needs through Web, CLI, SNMP, Telnet, and other network management methods.

FEATURE

Gigabit access

- Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- Support Gigabit PoE port and SFP 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.
- ♦ The PoE port supports the priority mechanism. When the remaining power is insufficient, the power of the high-priority port is given priority to avoid overloading of the device.
- ♦ 24*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.

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.

Strong business processing capability

- ♦ 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.

■ Stable and reliable

- ♦ CCC, CE, FCC, RoHS.
- Self-developed power supply, high redundancy design, providing a long-term and stable PoE power output.
- ♦ The user-friendly panel can show the device status through the LED indicator of PWR, SYS, Link, L/A, and PoE.
- ♦ Low power consumption, with fam, galvanized steel housing, and excellent heat dissipation to ensure the stable operation of the switch.

■ Easy O&M management

- ♦ Support CPU monitoring, memory monitoring, Ping detection, and cable length detection.
- ♦ HTTPS, SSLV3, SSHV1/V2, and other encryption methods are more secure in management.
- RMON, system log, and port traffic statistics are convenient for network optimization and transformation.
- LLDP is convenient for the network management system to query and judge the communication status of the link.
- Support diverse management and maintenance methods such as Web network management,
 CLI command line (Console, Telnet), SNMP (V1/V2/V3), Telnet, etc.



TECHNICAL SPECIFICATION

Model	GWS-IPS33026PFM	GWS-IPS33026PFM-at	
Interface Characteristics			
	2*AC100-240V input ports		
	1*Console port (115200,N,8,1)		
Fixed Port	1*Power failure alarm switch port (FAL	JLT)	
FIXED FOIL	24*10/100/1000Base-T PoE ports (Da	ta/ Power)	
	4*100/1000M uplink SFP fiber ports (in	ncluding 2 combo ports) (Data)	
	1 set DC48-57V input ports (support re	everse connection protection)	
Ethernet Port	Port 1-24 can support 10/100/1000Bas	se-T(X) auto-sensing, full/ half duplex	
Ethernet Fort	MDI/ MDI-X self-adaption		
	10BASE-T: Cat3,4,5 UTP (≤100 meter	rs)	
Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)		
	1000BASE-T: Cat5e or later UTP (≤10	00 meters)	
Optical Fiber Port	Gigabit optical fiber interface, default r	no include optical module (optional	
Optical Fiber Fort	single-mode/ multi-mode, single fiber/	dual fiber optical module. LC)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m, Single-m	node: 1310nm/ 0-40km, 1550nm/	
Optical Cable/ Distance	0-120km		
Chip Parameter	Chip Parameter		
Network Management	L2+		
Туре	LZT		
Network Protocol	IEEE 802.3 10BASE-T, IEEE 802.3i 10	0Base-T, IEEE 802.3u 100Base-TX,	
Network Protocol	IEEE 802.3ab 1000Base-T, IEEE 802.	3z 1000Base-X, IEEE 802.3x	
Forwarding Mode	Forwarding Mode Store and Forward (Full Wire Speed)		
Switching Capacity	52Gbps (non-blocking)		
Forwarding Rate@64byte	38.69Mpps		
CPU(Hz)	416M		
DRAM	1G		



FLASH	128M		
MAC	8K		
Buffer Memory	8M		
Jumbo Frame	9.6K		
LED Indicator	Power: PWR(Yellow), System: SYS(Y	'ellow), Network: Link/Act (Yellow), PoE:	
LLD Indicator	PoE (Green), Fiber port: L/A(Green)		
Reset Switch	Yes		
PoE& Power Supply			
PoE Port	Port 1-24		
	PoE power supply total power limit co	nfiguration	
PoE Management	Power delay start, PoE work and time	scheduling	
1 OE Management	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		
Total PWR/ Input Voltage	400W/ (AC100-240V) 600W/ (AC100-240V)		
Power Consumption	Standby<18W, Full load<380W Standby<22W, Full load<600W		
Power Supply	Built-in power supply, AC100~240V	Built-in power supply, AC100~240V	
т ожет Зиррту	50-60Hz, 5.0A	50-60Hz, 6.6A	
	Alarm switch port, 2*AC power input p	ports, 2*DC48-57V input ports	
Power Input Port	Dual input power port: AC power supply priority to support anti-reverse		
1 GWGI IIIPACT GIT	connection protection, and automatically switches to DC connection when		
	power fails.		
Physical Parameter	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	5.4kg/ 6.2kg 6.2kg/ 7.0kg		
Installation	Desktop, 1U/19" cabinet		



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): CM 2.5kV, DM 1kV	
Lightning Protection	Protection level: IP30, 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, 1-3s	
	IEC61000-4-5(Surge): Power cable: CM±4kV/DM±2kV, Data cable: ±4kV	
Machanical Proportion	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27	
Mechanical Properties	(Anti Shock)	
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class A, RoHS	
Warranty	5 years, lifelong maintenance.	
Network Management Fea	nture	
	Broadcast storm control based on port speed	
	Port EEE Green Ethernet energy-saving configuration	
Interface	Port temperature protection settings, IEEE 802.3x flow control (Full duplex)	
	Limit the speed of the message traffic at the inbound and outbound ports, with	
	mini granularity of 64Kbps	
	Static routing/ default routing max 128 entries	
LO Factions	L2+ network management, ARP protocol, max 1024 entries	
L3 Feature	L3 routing and forwarding, support communication between different network	
	segments and different VLAN	
VLAN	Port configuration of Access, Trunk, Hybrid	

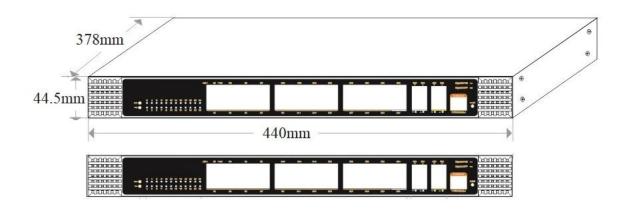


	4K VLAN based on port, QinQ configuration, IEEE802.1q
	VLAN based on MAC, VLAN based on the protocol, Voice VLAN
Port Aggregation	LACP dynamic aggregation, Static aggregation, Max 13 aggregation groups
	and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Dina Nativali Diata ad	G.8032 (ERPS), 255 Ring at most, Max 250 devices per ring. Recovery time
Ring Network Protocol	less than 20ms
Multicast	IGMP Snooping v1/v2/v3, Max 1024 multicast groups, MLD Snooping,
Mullicast	Multicast VLAN, User quick exit mechanism
Port Mirroring	Bidirectional data mirroring based on port
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
QoS	Flow-based rate limiting, Flow-based packet filtering
QUS	Flow-based redirection, Diff-Serv QoS, Priority Mark/ Remark
	8*Output queues of each port, 802.1p/DSCP priority mapping
	ACL issued based on port and VLAN
	L2-L4 packet filtering function can match the first 80 bytes of the message and
ACL	provide ACL definition 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.
	SSH 2.0, SSL, Port isolation, ARP message speed limit
	User hierarchical management and password protection
Security	AAA & RADIUS & TACACS+ certification, MAC learning limit
	IEEE802.1X & MAC address authentication, ARP inspection
	IP-MAC-VLAN-Port binding, Anti-DoS attack, IP source protection
	Broadcast storm control, Backup for host datum, Mac black holes
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
	CPU real-time utilization status view, SNMP V1/V2/V3
Management	GWS-NMS platform cluster management (LLDP+SNMP)
	Console/ AUX Modem/ Telnet/ SSH2.0, CLI configuration

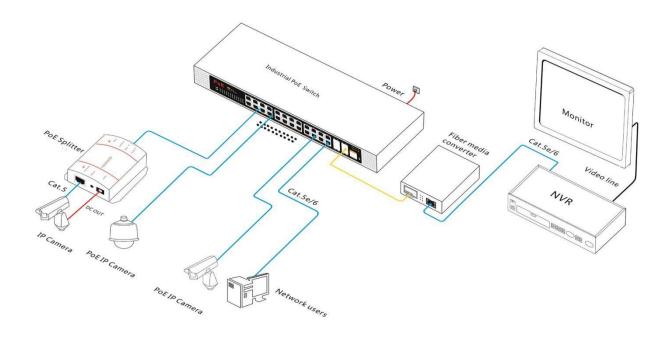


	Cable length status detection, NTP clock, One-key recovery, LLDP
	FTP, TFTP, Xmodem, SFTP file upload and download management
	Ping detection, System work log, Web network management (HTTPS)
	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or higher,
	Cat5 and above Ethernet cable
System	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	Built-in Power Supply
GWS-IPS33026PFM	L2+ managed industrial PoE fiber switch with 24*10/100/1000M RJ45 ports and 4*100/1000M uplink SFP fiber ports (including 2 combo ports). Port	2*400W
GWS-IPS33026PFM-at	1-24 can support IEEE 802.3 af/at PoE standard. It built-in power supply and 1U/19" cabinet installation.	2*600W
Note: The optical module is not included and needs to be purchased separately.		

PACKING LIST

	Content	Qty	Unit
	26-port Gigabit managed industrial PoE switch	1	Set
	RJ45-DB9 Adapter Cable	1	PC
Packing List	AC Power Cable	1	PC
	Mounting Kit (Hanging Ear)	1	Set
	User Guide	1	PC
	Warranty Card and Certificate of Conformity	1	PC

OPTICAL MODULE

Product	Model	Description	Unit
		Industrial SFP optical module, 1.25G multi-mode dual fiber	
1.25G	2630-G	850nm, transmission distance: 550m, LC interface, supports	PC
Optical		DDM function and hot plugging.	
Module	0000	Industrial SFP optical module, 1.25G single-mode dual fiber	DO.
	2632-G	1310nm, transmission distance: 20km, LC interface, supports	PC



	DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single fiber	
2612-T-G	TX1310nm/ RX1550nm, transmission distance: 20km, LC	PC
	interface, supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single fiber	
2613-R-G	TX1550nm/ RX1310nm, transmission distance: 20km, LC	PC
	interface, supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single fiber	
2612-T-SC-G	TX1310nm/ RX1550nm, transmission distance: 20km, SC	PC
	interface, supports DDM function and hot plugging.	
	Industrial SFP optical module, 1.25G single-mode single fiber	
2613-R-SC-G	TX1550nm/ RX1310nm, transmission distance: 20km, SC	PC
	interface, supports DDM function and hot plugging.	

RELATED PRODUCT

Model	Description
OWO IDOOOOAODEM	L2+ managed industrial PoE fiber switch with 16*10/100/1000M RJ45 ports
	and 2*100/1000M uplink SFP fiber ports. Port 1-16 can support IEEE 802.3
GWS-IPS33018PFM	af/at PoE standard. It can support DC+AC redundant power input and 1U/19"
	cabinet installation.
	L2+ managed industrial PoE fiber switch with 24*10/100/1000M RJ45 ports
OWO IDOOOOODEN	and 8*100/1000M SFP fiber ports and 4*1/10G uplink SFP+ fiber ports. Port
GWS-IPS36036PFM	1-24 can support IEEE 802.3 af/at PoE standard. It can support DC+AC
	redundant power input and 1U/19" cabinet installation.
GWS-IPS36048PFM	L2+ managed industrial PoE fiber switch with 48*10/100/1000M RJ45 ports
	and 4*1/10G uplink SFP+ fiber ports. Port 1-48 can support IEEE 802.3 af/at
	PoE standard. It can support DC+AC redundant power input and 1U/19"
	cabinet installation.



	L3 managed industrial PoE fiber switch with 24*10/100/1000M RJ45 ports
GWS-IPS38036PFM	and 8*100/1000M SFP fiber ports and 4*1/10G uplink SFP+ fiber ports. Port
	1-24 can support IEEE 802.3 af/at PoE standard. It can support DC+AC
	redundant power input and 1U/19" cabinet installation.
GWS-IPS38048PFM	L3 managed industrial PoE fiber switch with 48*10/100/1000M RJ45 ports
	and 4*1/10G uplink SFP+ fiber ports. Port 1-48 can support IEEE 802.3 af/at
	PoE standard. It can support DC+AC redundant power input and 1U/19"
	cabinet installation.

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