

#### **Product Datasheet**

## 16-port Gigabit Managed Industrial Ethernet Switch

(GWS-IPS33168FM-4GF)



#### **OVERVIEW**

The GWS-IPS33168FM-4GF is a Gigabit managed industrial Ethernet fiber switch independently developed by GWS. It has 12\*10/100/1000M adaptive RJ45 ports and 4\*100/1000M uplink SFP fiber ports. Each port can support wire-speed forwarding.

The GWS-IPS33168FM-4GF has L2+ network management functions, supports IPV4/IPV6 management, static routing forwarding, complete security protection mechanism, perfect ACL/QoS strategy, and rich VLAN functions for easy management and maintenance. Supports multiple network redundancy protocols STP/RSTP/MSTP (<50ms) and (ITU-T G.8032) ERPS (<20ms) to improve link backup and network reliability. When a unidirectional network fails, communication can be quickly restored to ensure uninterrupted communication of important applications. Port management, routing address management, port flow control, VLAN division, IGMP, security policy, and other



application business configurations can be performed through Web, CLI, SNMP, Telnet, and other network management methods according to application needs. It is excellent adaptability to industrial field environments (including mechanical stability, climate environment adaptability, electromagnetic environment adaptability, etc.). It is suitable for industrial scenarios such as intelligent transportation, rail transportation, power industry, mining, petroleum, shipping, metallurgy, and green energy construction to form an economical, efficient, stable, and reliable communication network.

#### FEATURE

#### Gigabit access, uplink SFP fiber port

- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE 802.3x 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.

#### 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.

#### Security



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

#### Stable and reliable

- $\diamond$  CCC, CE, FCC, RoHS.
- The user-friendly panel can show the device status through the LED indicator of PWR,
  Link, L/A, and SYS.
- Low power consumption, no fan, Aluminum alloy 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-IPS33168FM-4GF	
Interface Characteristics		
Fixed Port	Power off alarm switch port (FAULT)	



Optical Fiber Portsingle-mode/ multi-mode, single fiber/ dual fiber optical module. LC)Optical Cable/ DistanceMulti-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550m 0-120kmChip Parameter0-120kmNetwork Management TypeL2+IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u		
4*100/1000Base-X uplink SFP fiber ports (Data) 2 sets V+, V- redundant DC power port (GP Phoenix terminal)Ethernet PortPort 1-12 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaptionTwisted Pair Transmission10BASE-T: Cat3,4,5 UTP (≤100 meters)100BASE-T: Cat5 or later UTP (≤100 meters)100BASE-T: Cat5 or later UTP (≤100 meters)Optical Fiber PortGigabit optical fiber interface, default matching optical module (option single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)Optical Cable/ DistanceMulti-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550m 0-120kmChip ParameterL2+Network Management TypeL2+Network ProtocolStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Switching Capacity32.81MppsCPU(Hz)416MDRAM13Forwarding Rate @64byte128M		1*RS232 Console port (115200,N,8,1)
2 sets V+, V- redundant DC power port (6P Phoenix terminal)Ethernet PortPort 1-12 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaptionTwisted Pair Transmission10BASE-T: Cat3,4,5 UTP (<100 meters)		12*10/100/1000Base-T RJ45 ports (Data)
Ethernet PortPort 1-12 can support 10/100/1000Base-T auto-sensing, full/ half duplex MDI/ MDI-X self-adaptionTwisted Pair Transmission10BASE-T: Cat3,4,5 UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)Optical Fiber PortGigabit optical fiber interface, default matching optical module (option single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)Optical Cable/ DistanceMulti-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550m 0-120kmChip ParameterL2+Network Management TypeL2+IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3a b 1000Base-T, IEEE 802.3u IEEE 802.3xForwarding ModeStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byte23.81MppsCPU(Hz)416MDRAM1GFLASH128M		4*100/1000Base-X uplink SFP fiber ports (Data)
Ethernet Portduplex MDI/ MDI-X self-adaptionTwisted Pair Transmission10BASE-T: Cat3,4,5 UTP (≤100 meters)100BASE-T: Cat3,4,5 UTP (≤100 meters)100BASE-T: Cat5 or later UTP (≤100 meters)Optical Fiber PortGigabit optical fiber interface, default matching optical module (option single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)Optical Cable/ DistanceMulti-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550m 0-120kmChip ParameterMulti-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550m 0-120kmNetwork Management TypeL2+I2+IEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3a b 1000Base-T, IEEE 802.3zForwarding ModeStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byte381MppsCPU(Hz)416MDRAMIGFLASH128M		2 sets V+, V- redundant DC power port (6P Phoenix terminal)
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Twisted Pair Transmission100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)Optical Fiber PortGigabit optical fiber interface, default matching optical module (option single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)Optical Cable/ DistanceMulti-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550m 0-120kmChip ParameterImage: Store and Forward 100Base-T, IEEE 802.31 10Base-T, IEEE 802.30Network Management TypeIEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3uNetwork Protocol100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3uForwarding ModeStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byte23.81MppsCPU(Hz)416MIGIGFLASH128M	Ethernet Port	duplex MDI/ MDI-X self-adaption
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Optical Fiber PortGigabit optical fiber interface, default matching optical module (option single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)Optical Cable/ DistanceMulti-mode: 850nm/ 0-550m, Single-mode: 1310nm/ 0-40km, 1550m 0-120kmChip Parameter	Twisted Pair Transmission	100BASE-TX: Cat5 or later UTP (≤100 meters)
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Optical Cable/ Distance0-120kmChip ParameterNetwork Management TypeL2+L2+L2+Metwork ProtocolIEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3uNetwork Protocol100Base-TX , IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X IEEE 802.3xForwarding ModeStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byte23.81MppsCPU(Hz)416MDRAMIGFLASH128M	Optical Fiber Port	single-mode/ multi-mode, single fiber/ dual fiber optical module. LC)
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Network Management TypeL2+Retwork ProtocolIEEE 802.3 10BASE-T, IEEE 802.3i 10Base-T, IEEE 802.3uNetwork Protocol100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-XIEEE 802.3xIEEE 802.3xForwarding ModeStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byte23.81MppsCPU(Hz)416MDRAMIGFLASH128M	Optical Cable/ Distance	0-120km
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Forwarding ModeStore and Forward (Full Wire Speed)Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byte23.81MppsCPU(Hz)416MDRAM1GFLASH128M	Network Protocol	100Base-TX , IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-X,
Switching Capacity52Gbps (non-blocking)Forwarding Rate @64byte23.81MppsCPU(Hz)416MDRAM1GFLASH128M		IEEE 802.3x
Forwarding Rate @64byte23.81MppsCPU(Hz)416MDRAM1GFLASH128M	Forwarding Mode	Store and Forward (Full Wire Speed)
Forwarding Rate @64byteCPU(Hz)416MDRAM1GFLASH128M	Switching Capacity	52Gbps (non-blocking)
DRAM  1G    FLASH  128M	Forwarding Rate @64byte	23.81Mpps
DRAM  1G    FLASH  128M		
FLASH 128M	. ,	
MAC 8K	FLASH	128M
	MAC	8K
Buffer Memory 4M	Buffer Memory	4M
lumba Frama	Jumbo Frame	9.6K



LED Indicator	Power: PWR (Green), System: SYS (Green), Network: Link/Act			
	(Yellow), Fiber Port: L/A (Green)			
Power Supply				
Power Consumption	Standby<10W, Full load<22W			
	DC12-48V, 6P industrial Phoenix terminal, support anti-reverse			
Working Voltage	protection.			
Power Supply	No, optional 24V/24W or 24V/36W industrial power supply			
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				
	Protection level: IP40			
	Lightning protection: 6KV 8/20us			
	IEC61000-4-3 (RS):10V/m (80~1000MHz)			
	FCC Part 15/CISPR22 (EN55022): Class B			
	IEC61000-6-2 (Common Industrial Standard)			
	IEC61000-4-9 (Pulsed magnet field): 1000A/m			
	IEC61000-4-10 (Damped oscillation): 30A/m, 1MHz			
Lightning Protection	IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV			
	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
Mechanical Properties	IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall),
	IEC60068-2-27 (Anti Shock)
Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class
Certification	B, RoHS
Warranty	5 years, lifelong maintenance.
Network Management Fea	ture
	Port temperature protection settings
	IEEE 802.3x flow control (Full duplex)
Interface	Broadcast storm suppression based on port rate
Interface	Port EEE Green Ethernet energy-saving configuration
	Limit the speed of the message traffic at the inbound and outbound
	ports mini granularity is 64Kbps
	ARP protocol, max 1024 entries
	Static route/ default route, max 128 entries
L3 Feature	L2+ network management function, IPV4/IPV6 management
	Support L3 routing line-speed forwarding, communication between
	different network segments, and different VLAN
	Port configuration of Access, Trunk, Hybrid.
VLAN	VLAN based on MAC, VLAN based on the protocol
VLAN	(4K) VLAN based on port, IEEE802.1q, Voice VLAN, QinQ
	configuration
Port Aggregation	LACP, Static aggregation, Max 8 aggregation groups and max 8 ports
T of Aggregation	per group
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	MLD Snooping, Multicast VLAN, Fast log out, IGMP Snooping v1/v2/v3
Mulloast	and 1024 multicast groups at most
Port Mirroring	Bidirectional data mirroring based on port
QoS	Queue Scheduling Algorithm (SP, WRR, SP+WRR)

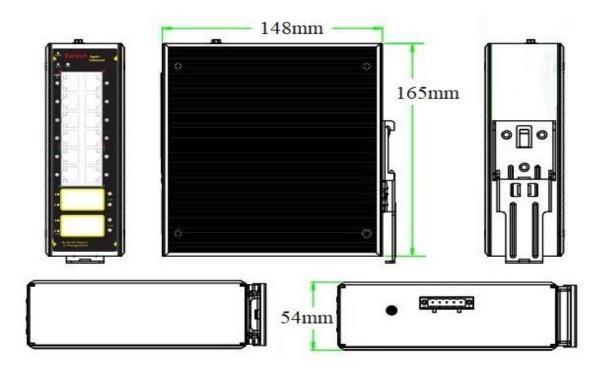
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	Flow-based Rate Limiting, Flow-based redirection
	Flow-based Packet Filtering, 8*Output queues of each port
	802.1p/ DSCP priority mapping, Diff-Serv QoS, Priority Mark/ Remark
	ACL distribution based on port and VLAN
	L2-L4 packet filtering function, 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.
	Port-based IEEE802.1X authentication
	SSL guarantees data transmission security
	Quad binding function of IP+MAC+VLAN+ports
	Port isolation, ARP message speed limit function
<b>A</b>	MAC address learning limit, MAC address black hole
Security	Anti DoS attack, Port broadcast message suppression
	Hierarchical user management and password protection
	SSH 2.0 provides a secure encrypted channel for user login
	Host data backup mechanism, ARP intrusion detection function
	IP source address protection, AAA & RADIUS & TACACS+ certification
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
	Web network management (https)
	Link Layer Discovery Protocol(LLDP)
	Viewing CPU Instant Utilization Status
Management	NTP clock, One click restore, SNMP V1/V2/V3
	Cable status check, Ping detection, System work log
	GWS-NMS platform cluster management (LLDP+SNMP)
	Console/AUX Modem/Telnet/CLI command line configuration
	FTP, TFTP, Xmodem, SFTP file upload and download management
Svetom	Web browser: Mozilla Firefox 2.5 or higher, Google Chrome V42 or
System	higher, Cat5 and above Ethernet cable

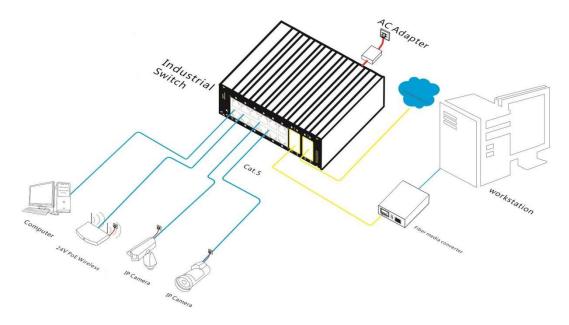


TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, Mac OS X) installed on each computer in the network Cat5 and above Ethernet cable

### DIMENSION



#### **APPLICATION**



#### **ORDERING INFORMATION**



Model	Description	Recommended
Woder	Description	Power Supply
GWS-IPS33168FM-4GF	L2+ managed industrial Ethernet fiber switch	
	with 12*10/100/1000M RJ45 ports and	
	4*100/1000M uplink SFP fiber ports. It can	24W/36W
	support dual DC power supply input and DIN	
	Rail mounting.	

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

#### **PACKING LIST**

Packing List	Content	Qty	Unit
	16-port gigabit managed industrial Ethernet 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	Unit
		Industrial SFP optical module, 1.25G multi-mode dual fiber	
	2630-G	850nm, transmission distance: 550m, LC interface. support	PC
		DDM function and hot plugging.	
1.25G		Industrial SFP optical module, 1.25G single-mode dual fiber	
Optical	2632-G	1310nm, transmission distance: 20km, LC interface. support	PC
Module		DDM function and hot plugging.	
		Industrial SFP optical module, 1.25G single-mode single	
	2612-T-G	fiber TX1310nm/ RX1550nm, transmission distance: 20km,	PC
		LC interface. support DDM function and hot plugging.	

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

## **POWER SUPPLY**

Product	Model	Description	Unit
24W DIN Rail Industrial Power Supply	GWS-DP24-24	DIN Rail 24W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.35A Output Voltage: DC24V, 1.0A Operation Temperature: -40°C to +70°C	PC
36W DIN Rail Industrial Power Supply	GWS-DP36-24	DIN Rail 36W single set of output power supply Input Voltage: AC100V~240V 50-60H, 0.56A Output Voltage: DC24V, 1.5A Operation Temperature: -40°C to +70°C	PC

## **RELATED PRODUCT**

Mod	el	Description
		L2+ managed industrial Ethernet fiber switch with 4*10/100/1000M
GWS-IPS3	3064FM	RJ45 ports and 2*100/1000M uplink SFP fiber ports. It can support
		dual DC power supply input and DIN Rail mounting.

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	L2+ managed industrial Ethernet fiber switch with 4*10/100/1000M
GWS-IPS33084FM	RJ45 ports and 4*100/1000M uplink SFP fiber ports. It can support
	dual DC power supply input and DIN Rail mounting.
	L2+ managed industrial Ethernet fiber switch with 8*10/100/1000M
GWS-IPS33108FM	RJ45 ports and 2*100/1000M uplink SFP fiber ports. It can support
	dual DC power supply input and DIN Rail mounting.
	L2+ managed industrial Ethernet fiber switch with 10*10/100/1000M
GWS-IPS33148FM	RJ45 ports and 4*100/1000M uplink SFP fiber ports. It can support
	dual DC power supply input and DIN Rail mounting.
	L2+ managed industrial Ethernet fiber switch with 8*10/100/1000M
GWS-IPS33168FM	RJ45 ports and 8*100/1000M uplink SFP fiber ports. It can support
	dual DC power supply input and DIN Rail mounting.
	L2+ managed industrial Ethernet fiber switch with 20*10/100/1000M
GWS-IPS33248FM-4G	RJ45 ports and 4*100/1000M uplink SFP fiber ports. It can support
F	dual DC power supply input and DIN Rail mounting.

## **CONTACT US**



Tel: 0086-752-3397806 WeChat: HZGWS--PoE Email: hzgws@hzgws.com Skype: hzgws@hzgws.com Website: <u>www.hzgws.com</u> Address: Building 3, Phase



Address: Building 3, Phase II, Xinghe Artificial Intelligence Industrial Park, No.333 Zhongkai 6th Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou