Product Datasheet

6-port Full Gigabit E Network Managed Industrial PoE Switch

(GWS-IPS5064PFM)

Overview

The GWS-IPS5064PFM is a full Gigabit e network managed industrial PoE switch. It has 4*10/100/1000Base-T adaptive RJ45 ports and 2*100/10001000Base-X SFP fiber ports. Port 1-4 support IEEE802.3af/at PoE standard. 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, webcam, VoIP, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, Industrial scenes such as shipping, metallurgy, and green energy construction form a cost-effective, stable and reliable communication network.

GWS-IPS5064PFM can support the NMS management platform and cloud management APP management. It can realize security network topology management, link aggregation, port management, POE management, remote operation and maintenance and other functions. This

series of switches has high reliability, is easy to install and maintain, has fast switching function, and multiple access ports, which are suitable for access to LAN devices of various scales.

Feature

■ **Gigabit access, SFP fiber port uplink**

◇ Support non-blocking wire-speed forwarding.

◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

◇ Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ **Intelligent PoE power supply**

◇ IEEE802.3af/at PoE standard, without damaging non-PoE devices.

◇ PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

◇ 4*10/100/1000Base-T RJ45 ports can support POE power supply to meet the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.

■ **Extreme optimization, minimalist application**

◇ Real-time fault alarm and fault location.

◇ Remote upgrade, remote restart, and factory reset.

◇ Local platform, cloud platform and mobile APP operation and maintenance management.

◇ Visualized network topology management, VLAN division, QoS, link aggregation, ring network management, port mirroring, port control and bandwidth management.

◇ According to the application requirements of the industry, we have abandoned the complicated network management configuration while retaining the practical network management functions. Through the operation and maintenance platform, network deployment and centralized operation and maintenance can be quickly realized.

GWS

■ **Stable and reliable**

◇ CCC, CE, FCC, RoHS.

◇ Low power consumption, No fan design, aluminum shell.

◇ The user-friendly panel can show the device status through the LED indicator of PWR, SYS,
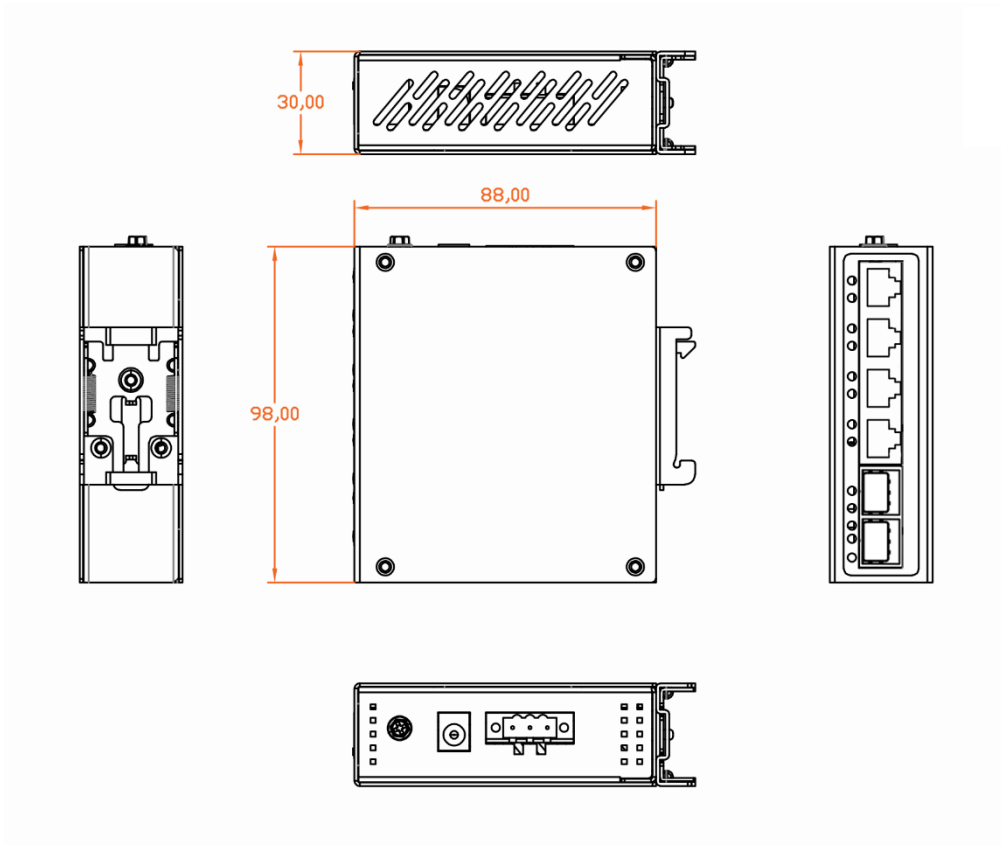
Link, L/A.

Technical Specification

Model	GWS-IPS5064PFM
Interface Characteristics	
Fixed Port	4*10/100/1000Base-T PoE ports(Data/Power) 2*100/1000Base-X uplink SFP ports (Data) 2 groups of V+, V- redundant DC power port (3P phoenix terminal) 1 DC Jack input
Ethernet Port	Port 1-4 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 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
SFP Slot Port	Gigabit SFP optical fiber interface, default no included optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0 ~ 500M, Single-mode: 1310nm/0 ~ 40KM, 1550nm / 0 ~ 120KM.
Chip Parameter	
Network Management Type	Simple web network management, cloud platform management
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX

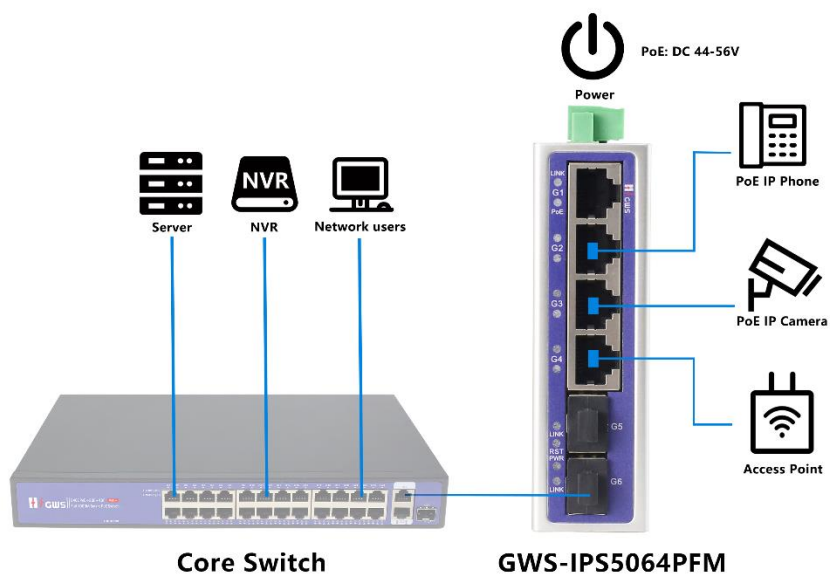|	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full wire-speed)
Switching Capacity	12Gbps
Forwarding Rate@64byte	8.93Mpps
MAC	2K
Buffer Memory	2Mb
Jumbo Frame	9.2KB
LED Indicator	Power/System: SYS (Green), Network: Link (Yellow), PoE: PoE(Green), Fiber port: L/A (Green)
Reset Switch	Press and hold for 6 seconds and release to restore the factory default settings Short press 2 times (1 second interval) to switch to the unmanaged state
PoE & Power Supply	
PoE Port	Port 1 to 4, IEEE802.3af/at
PoE Management	POE port output on/off View real-time power status of POE port
Power Supply Pin	Default: 1/2 (+) 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Total power/Input Voltage	60W/48VDC
Power Consumption	Standby:<6W, Full load:<60W
Power Input Port	DC44-56V, 3 Pin industrial Phoenix terminal +1 DC Jack, support anti-reverse protection.
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply
Physical Parameter	
Operation TEMP / Humidity	-40~+75°C, 5%~90% RH Non condensing
Storage TEMP /	-40~+85°C, 5%~95% RH Non condensing

Humidity	
Dimension (L*W*H)	98*88*30mm
Net /Gross Weight	<0.25kg / <0.35kg
Installation	Desktop, 35mm DIN rail

Certification & Warranty

Lightning Protection	Lightning protection: 6KV 8/20us; Protection level: IP40
	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 to 3s
	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
	IEC61000-4-16(common-mode transmission):30V; 300V,1s
	FCC 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	Port status display, Port traffic statistics
	Port duplex/negotiation rate configuration
	EEE Energy-saving and green Ethernet function
	IEEE802.3x flow control configuration (Full-duplex)
VLAN	Port-based IEEE802.1Q VLAN configuration (4K)

Port Aggregation	Static aggregation
Loop Protection	Loop protection function
Multicast	IGMP Snooping v1/v2, Max 256 multicast groups
Port Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS, Priority Mark/Remark 8*Output queues of each port, 802.1p/DSCP priority mapping
Security	Broadcast storm control, Port isolation, Port speed limit
DHCP	DHCP Snooping
Management	Mobile APP operation and maintenance management NMS platform management (Local platform/Cloud platform) One-key recovery, Cable Diagnose, Web Management (HTTPS)
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Category 5 and above Ethernet cables TCP/IP, network adapter, and network operating systems (Such as Microsoft Windows, Linux or Mac OS X) are installed on each computer in the network with Category 5 and above Ethernet cables

Dimension

Application

Ordering Information

Model	Description	Recommended Power Supply
GWS-IPS5064PFM	E network managed industrial PoE switch with 4*10/100/1000M RJ45 ports and 2*100/1000M SFP ports. Port 1-4 can support IEEE802.3af/at PoE standard. Support DC redundant power input (Phoenix terminal connection) and DIN rail mounting.	60W/120W

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

Packing List

	CONTENT	QTY	UNIT
PACKING LIST	6-port full gigabit E network managed industrial PoE switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

Optical Module Information

Product	Model	Description	Unit
1.25G Optical Module	2630-G	Industrial SFP optical module, 1.25G, multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, support DDM function, support hot plug and pull.	PC
	2632-G	Industrial SFP optical module, 1.25G, single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	PC
	2612-T-G	Industrial SFP optical module, 1.25G, single-mode single	PC

		fiber TX1310nm/RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	
	2613-R-G	Industrial SFP optical module, 1.25G, single-mode single fiber TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	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, support hot plug and pull.	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, support hot plug and pull.	PC

Power Supply

Product	Model	Description	Unit
65W Desktop Power Adaptor	GWS-AP65-52	Desktop 65W single set of output power adapter Input Voltage:AC 100V~240V 50-60Hz, 1.0A Output Voltage:DC 52V 1.25A Operation Temperature:-20℃—+65℃	PC
110W Desktop Power Adaptor	GWS-AP110-52	Desktop 110W single set of output power adapter Input Voltage:AC 100V~240V 50-60Hz,2.3A Output Voltage:DC 52V 2.5A Operation Temperature:-20℃—+65℃	PC
60W DIN Rail Industrial Power	GWS-DP60-48	Din Rail 60W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz, 1.1A	PC

Supply		Output Voltage:DC 48V 1.25A Operation Temperature:-40°C—+70°C	
120W DIN Rail Industrial Power Supply	GWS-DP120-48	Din Rail 120W single set of output power supply Input Voltage:AC 100V~240V 50-60Hz,2.3A Output Voltage:DC 48V 2.5A Operation Temperature:-40°C—+70°C	PC

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