

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.

■ 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

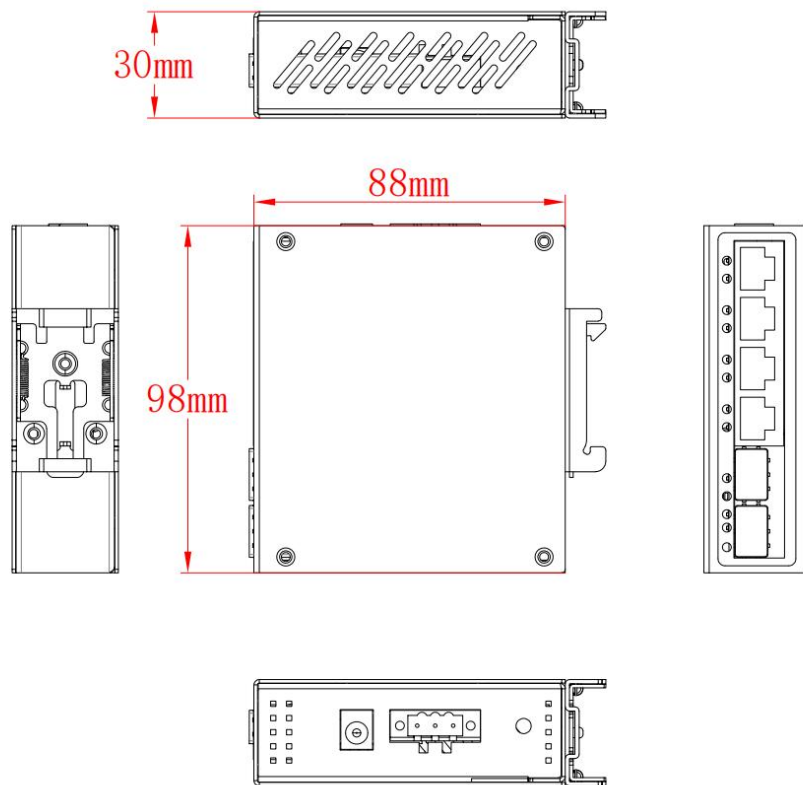
| Model | GWS-IPS5064PFM |
|----------------------------------|--|
| Interface Characteristics | |
| Fixed Port | 4*10/100/1000Base-T PoE ports(Data/Power) 2*100/1000Base-X uplink SFP ports (Data) 2 groups of V+, V- redundant DC power port (3P phoenix terminal) 1 DC Jack input |
| Ethernet Port | Port 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 | |

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| 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/44-56VDC |
| Power Consumption | Standby:<6W, Full load:<60W |
| Power Input Port | DC44-56V, 3 Pin industrial Phoenix terminal +DC5521 Jack, support anti-reverse protection. |
| Power Supply | Self-purchased, optional 48V/60W or 48V/120W industrial power supply |
| Physical Parameter | |

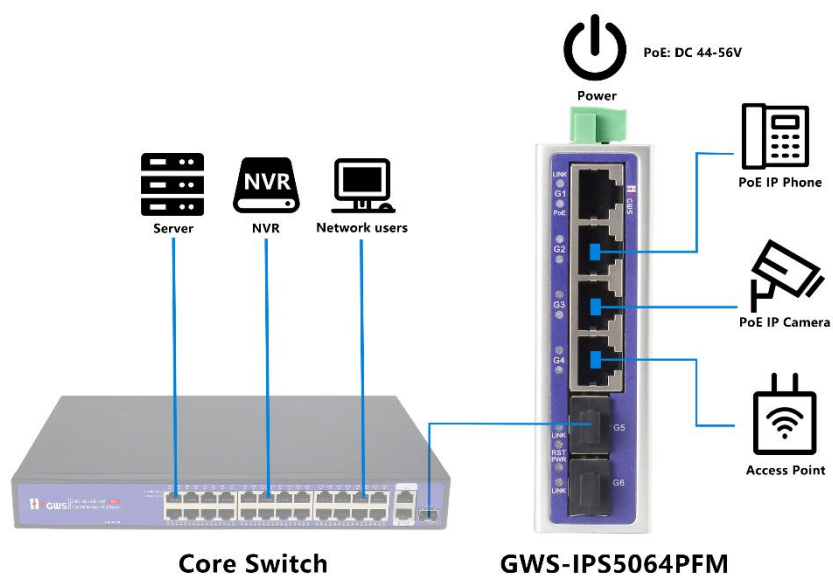
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| Operation TEMP / Humidity | -40~+75°C, 5%~90% RH Non condensing |
| Storage TEMP / Humidity | -40~+85°C, 5%~95% RH Non condensing |
| Dimension (L*W*H) | 98*88*30mm |
| Net /Gross Weight | <0.25kg / <0.35kg |
| Installation | Desktop, 35mm DIN rail |
| Certification & Warranty | |
| Lightning Protection | <p>Lightning protection: 6KV 8/20us; Protection level: IP40</p> <p>IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge</p> <p>IEC61000-4-3(RS):10V/m(80~1000MHz)</p> <p>IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV</p> <p>IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV</p> <p>IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)</p> <p>IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s</p> <p>IEC61000-4-9(pulsed magnet field):1000A/m</p> <p>IEC61000-4-10(damped oscillation):30A/m 1MHz</p> <p>IEC61000-4-12/18(Shockwave):CM 2.5kV,DM 1kV</p> <p>IEC61000-4-16(common-mode transmission):30V; 300V,1s</p> <p>FCC Part 15/CISPR22(EN55022):Class B</p> <p>IEC61000-6-2(Common Industrial Standard)</p> |
| Mechanical Properties | <p>IEC60068-2-6 (anti vibration)</p> <p>IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p> |
| Certification | CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS |
| Warranty | 5 years, lifelong maintenance. |
| Network Management Features | |
| Interface | <p>Port status display, Port traffic statistics</p> <p>Port duplex/negotiation rate configuration</p> |

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| | 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 |

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| | | 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 |

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|---|--------------|---|----|
| 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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