

Product Datasheet

9-port 2.5G Industrial PoE Fiber Switch

(GWS-IPS57008PF)



OVERVIEW

The GWS-IPS57008PF is a 2.5G industrial PoE fiber switch independently developed by GWS. It has 8*10/100/1000/2500Base-T adaptive RJ45 ports and 1*1/2.5/10G uplink SFP+ fiber port. Port 1-8 can support IEEE 802.3 af/at PoE standard, and 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. Unmanaged mode, plug and play, no configuration, easy to use.

FEATURE

■ 2.5G access, 10G optical port uplink

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE 802.3x and half-duplex based on Backpressure.
- ◇ Support 2.5G Ethernet port and 1/2.5/10G SFP+ port combination, which enables users to flexibly build networking to meet the needs of various scenarios.

■ Smart PoE power supply

- ◇ 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.
- ◇ 8*10/100/1000/2500Base-T RJ45 ports support PoE power, meeting the PoE power requirements of security monitoring, industrial automation systems, wireless coverage and other scenarios.

■ Stable and reliable

- ◇ CCC, CE, FCC, and RoHS.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, L/A, and PoE.
- ◇ Low power consumption, no fan, aluminum alloy shell, excellent heat dissipation to ensure the stable operation of the switch.

TECHNICAL SPECIFICATION

| Model | GWS-IPS57008PF |
|----------------------------------|---|
| Interface Characteristics | |
| Fixed Port | 1*1/2.5/10G uplink SFP+ fiber port (Data) |

| | |
|-------------------------------|--|
| | <p>8*10/100/1000/2500Base-T PoE ports (Data/Power)</p> <p>2 set of V+, V- redundant DC power ports (5 Pin Phoenix terminal)</p> |
| Ethernet Port | <p>Port 1-8 support 10/100/1000/2500Base-T auto-sensing, full/ half duplex</p> <p>MDI/ MDI-X self-adaption</p> |
| Twisted Pair Transmission | <p>10BASE-T: Cat3,4,5 UTP (≤100 meters)</p> <p>100BASE-TX: Cat5 or later UTP (≤100 meters)</p> <p>1000BASE-T: Cat5e or later UTP (≤100 meters)</p> <p>2500BASE-T: Cat6A or later UTP (≤100 meters)</p> |
| Optical Fiber Port | <p>1/10G SFP+ optical fiber port, default no include optical module (optional single-mode / multi-mode, single fiber / dual fiber optical module. LC)</p> |
| Optical Cable/ Distance | <p>Multi-mode: 850nm/ 0-500m, 2.5G/10G /0-300m</p> <p>Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km</p> |
| Chip Parameter | |
| Network Protocol | <p>IEEE802.3 10BASE-T, IEEE802.3i 10Base-T</p> <p>IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T</p> <p>IEEE802.3z 1000Base-X, IEEE802.3bz 2.5GBase-T, IEEE802.3ae</p> <p>10GBase-SR/LR, IEEE802.3x</p> |
| Forwarding Mode | Store and Forward(Full Wire Speed) |
| Switching Capacity | 60Gbps |
| Forwarding Rate@64byte | 44.6Mpps |
| MAC | 8K |
| Buffer Memory | 8.1Mbit |
| Jumbo Frame | 12Kbytes |
| LED Indicator | Power: PWR (Green), Network: Link (Yellow), PoE: PoE (Green), Fiber port: L/A (Green) |
| PoE & Power Supply | |
| PoE Port | Port 1-8 |
| Power Supply Pin | 1/2(+)/3/6 (-) |

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|-------------------------------------|--|
| Max Power Per Port | 30W, IEEE 802.3 af/at |
| Power Consumption | Standby<13W, Full load af<120W, at<240W |
| Working Voltage | DC48-57V, 5 Pin industrial Phoenix terminal, support anti-reverse protection. |
| Power Supply | No, optional 48V/120W or 48V/240W industrial power supply |
| Physical Parameter | |
| 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) | 145*134.5*47mm |
| Net /Gross Weight | 0.8kg / 1.0kg |
| Installation | Desktop, 35mm DIN Rail |
| Certification & Warranty | |
| Lightning Protection | <p>Protection level: IP40</p> <p>Lightning protection: 6KV 8/20us</p> <p>IEC61000-4-3 (RS):10V/m (80~1000MHz)</p> <p>FCC Part 15/CISPR22 (EN55022): Class B</p> <p>IEC61000-6-2 (Common Industrial Standard)</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>IEC61000-4-4(EFT): Power cable:±4kV, Data cable: ±2kV</p> <p>IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s</p> <p>IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge</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-3s</p> <p>IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, Data cable: ±4kV</p> |
| Mechanical Properties | IEC60068-2-6 (Anti Vibration), IEC60068-2-32 (Free Fall), IEC60068-2-27 |

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|---------------|---|
| | (Anti Shock) |
| Certification | CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS |
| Warranty | 5 years, lifelong maintenance. |

ORDERING INFORMATION

| Model | Description | Recommended Power Supply |
|---|--|--------------------------|
| GWS-IPS57008PF | Unmanaged industrial PoE fiber switch with 8*10/100/1000/2500M RJ45 ports and 1*1/2.5/10G uplink SFP+ fiber port. Port 1-8 can support IEEE 802.3 af/at PoE standard. It support dual DC power supply input and DIN rail mounting. | 120W/240W |
| Note: The optical module and power supply are not included, and need to be purchased separately. | | |

PACKING LIST

| Packing List | Content | Qty | Unit |
|--------------|-----------------------------------|-----|------|
| | 9-port 2.5G industrial PoE switch | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 1 | PC |

OPTICAL MODULE

| 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 |

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|--------------------------|-------------|---|----|
| | 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 fiber TX1310nm/ RX1550nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
| | 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-SC-G | 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-SC-G | 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 |
| 10G Optical Module | 6630-G | Industrial SFP+ optical module, 10G multi-mode dual fiber 850nm, transmission distance: 300m, LC interface, support DDM function, support hot plug and pull. | PC |
| | 7832-G | Industrial SFP+ optical module, 10G single-mode dual fiber 1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
| | 7832-33-G | Industrial SFP+ optical module, 10G single-mode single fiber TX1330nm/ RX1270nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |
| | 7832-27-G | Industrial SFP+ optical module, 10G single-mode single fiber TX1270nm/ RX13300nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull. | PC |

POWER SUPPLY

| Product | Model | Description | Unit |
|---------------------------------------|--------------|---|------|
| 130W Desktop Power Adapter | GWS-AP130-52 | Desktop 130W single set of output power adapter Input Voltage: AC100V-240V 50-60Hz, 2.3A Output Voltage: DC52V, 2.5A Operation Temperature: -20°C to +65°C | PC |
| 250W Desktop Power Adapter | GWS-AP250-52 | Desktop 250W single set of output power adapter Input Voltage: AC100V-240V 50-60Hz, 4.1A Output Voltage: DC52V, 4.8A Operation Temperature: -20°C to +65°C | PC |
| 120W DIN Rail Industrial Power Supply | GWS-DP120-48 | DIN Rail 120W single set of output power supply Input Voltage: AC100V-240V 50-60Hz, 1.5A Output Voltage: DC48V, 2.5A Operation Temperature: -40°C to +70°C | 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°C to +70°C | PC |

CONTACT US



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