

Product Datasheet

10-port Full Gigabit Industrial Ethernet Switch

(GWS-IPS3108F)



Overview

The GWS-IPS3108F is a full gigabit industrial Ethernet fiber switch. It is designed to meet industrial fields and systems and can operate stably for a long time in harsh environments. It has 8*10/100/1000M adaptive RJ45 ports and 2*1000M SFP fiber slot ports. Each port can support full line-rate forwarding.

GWS-IPS3108F industrial Ethernet switch has excellent industrial field environment adaptability (including mechanical stability, climate adaptability, electromagnetic environment adaptability, etc.), protection level up to IP30, support for dual redundant power supply, low power consumption and no fan Cooling technology, MTBF average trouble-free working time up to 35 years, long 5-year warranty, non-management models, plug and play, no configuration, easy to use. It is suitable for industrial scenes such as intelligent transportation, rail transit, electric power, mining, metallurgy and green energy construction to form a cost-effective and stable communication network.

Unmanaged model, plug and play, no configuration, easy to use.

Feature

■ Gigabit Ethernet port access, uplink gigabit dual SFP port

- ◇ Uplink gigabit dual fiber ports,easy to achieve high bandwidth and long-distance transmission.
- ◇ Dual SFP fiber ports can cascade, chain, compatible with SFP module connection.

■ 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,Link, L/A

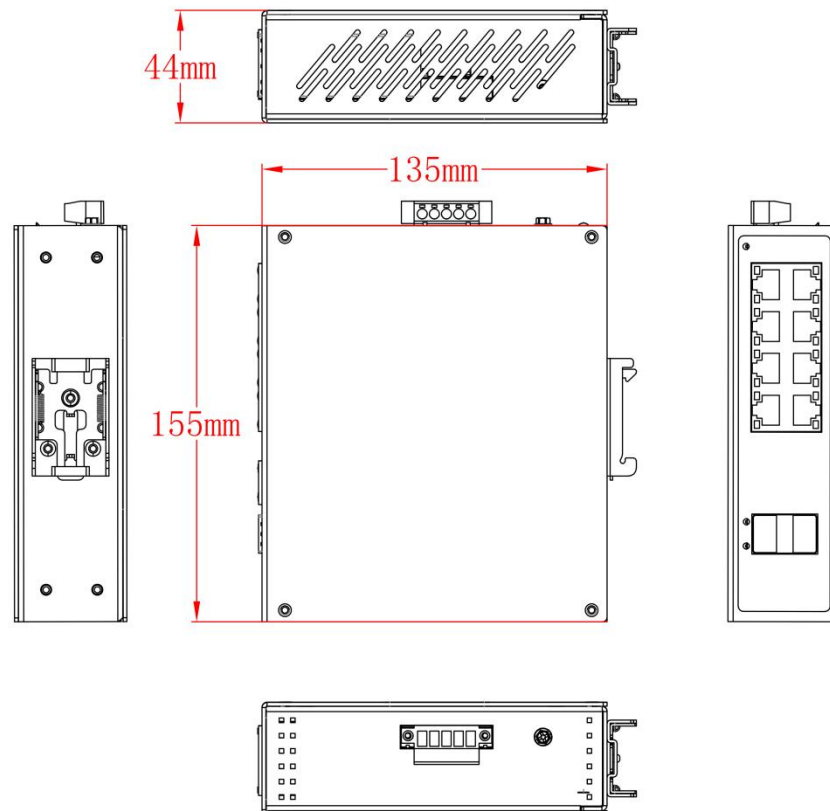
Technical Specification

| Model | GWS-IPS3108F | GWS-IPS3128F |
|----------------------------------|--|---|
| Interface Characteristics | | |
| Fixed Port | 8*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 sets of V+, V- redundant DC power interface (5P Phoenix terminal) | 10*10/100/1000Base-T RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 sets of V+, V- redundant DC power interface (5P Phoenix terminal) |
| 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) | |
| Ethernet Port | Port 1-8/10 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption | |
| SFP Slot Port | Gigabit SFP optical fiber interface, default not include optical modules (optional single-mode / multi-mode, single fiber / dual fiber optical module. LC) | |

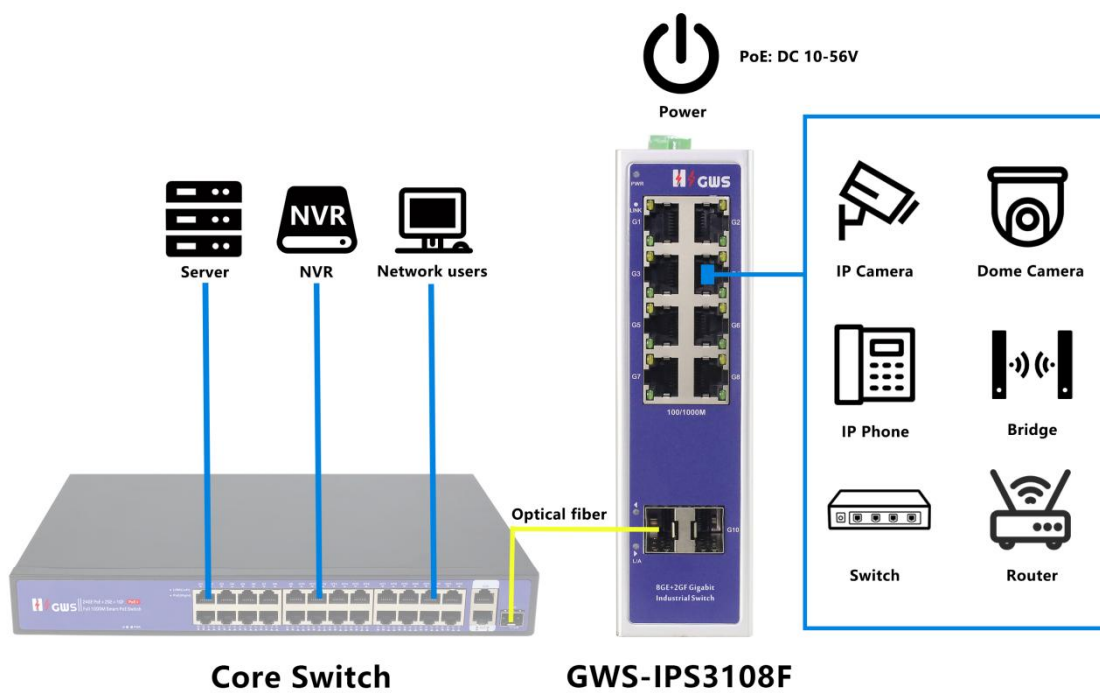
| | | |
|---------------------------|---|-----------------|
| Optical Cable/ Distance | Multi-mode: 850nm/ 0~500M, Single-mode: 1310nm/ 0~40KM,1550nm/ 0-120KM. | |
| Chip Parameter | | |
| Network Protocol | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x | |
| Forwarding Mode | Store and Forward(Full Wire Speed) | |
| Switching Capacity | 20Gbps | 24Gbps |
| Forwarding Rate@64byte | 14.88Mpps | 17.86Mpps |
| MAC | 8K | |
| Buffer Memory | 4Mb | |
| Jumbo Frame | 9.2KB | |
| LED Indicator | Power: PWR (green);Network :Link G1-G10 (yellow);Fiber PortL/A Fiber Port:L/A G11-G12(green) | |
| Power Supply | | |
| Power Consumption | Standby<8W, Full load<15W | |
| Working Voltage | 10-56VDC, 5 Pin industrial Phoenix terminal, support anti-reverse protection. | |
| Power Supply | Self-purchased, optional 24V/24W 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) | 155*135*44mm | |
| Net /Gross Weight | <0.6kg / <0.8kg | <0.6kg / <0.8kg |
| Installation | Desktop, DIN rail | |
| Certification & Warranty | | |
| Lightning Protection | Lightning protection: 6KV 8/20us; Protection level: IP30 | |

| | |
|-----------------------|--|
| | <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), IEC60068-2-27 (anti shock)</p> <p>IEC60068-2-32 (free fall)</p> |
| Certification | <p>CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B</p> <p>RoHS</p> |
| Warranty | <p>5 years, lifelong maintenance.</p> |

Dimension



Application



Ordering Information

| Model | Description | Recommended Power Supply |
|--------------|--|--------------------------|
| GWS-IPS3108F | Unmanaged industrial Ethernet fiber switch with 8*10/100/100M RJ45 ports and 2*1000M uplink SFP slot ports. It can support DC dual redundant power input and DIN rail mounting. | 24W |
| GWS-IPS3128F | Unmanaged industrial Ethernet fiber switch with 10*10/100/100M RJ45 ports and 2*1000M uplink SFP slot ports. It can support DC dual redundant power input and DIN rail mounting. | 24W |

Note: Industrial Ethernet switch does not include the SFP optical module and power supply.

Packing List

| PACKING LIST | CONTENT | QTY | UNIT |
|--------------|---|-----|------|
| | 10-port full gigabit industrial Ethernet switch | 1 | SET |
| | User Guide | 1 | PC |
| | Warranty Card | 1 | PC |

Optical Module Information

| Product | Model | Description | Unit |
|---------------|--------|---|------|
| 1.25G Optical | 2630-G | Industrial SFP optical module, 1.25G, multi-mode dual fiber 850nm, transmission distance: 550m, LC interface, support | PC |

| | | | |
|-----------------|-------------|---|----|
| Module | | DDM function, support hot plug and pull. | |
| | 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-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 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 | DP24-24 | Din Rail type 24W single set of output power supply; Input Voltage:AC 100V~240V 50-60Hz, 0.35A Output Voltage:DC 24V 1A Operation Temperature:-40°C—+70°C | PC |

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