

## Product Datasheet

# 2-port 10/100M Industrial PoE Fiber Switch

(GWS-IPS1021PF)



## Overview

The GWS-IPS1021PF is a 10/100M industrial PoE fiber switch. It has 1\*10/100M RJ45 ports and 1\*155M SC fiber port. Port 1 can support IEEE802.3af/at PoE standard. Single-port PoE power is 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, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, maritime, metallurgy, and Industrial scenarios such as green energy construction build cost-effective, stable, and reliable communication networks.

## Feature

### ■ 10/100M RJ45 and SC port, fast Ethernet

- ◇ Support non-blocking wire-speed forwarding.
- ◇ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ◇ Support 10/100M RJ45 port and 155M SC fiber 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.
- ◇ 1\*10/100Base-TX RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- ◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

### ■ Stable and reliable

- ◇ CCC,CE, FCC, RoHS.
- ◇ Low power consumption, No fan, aluminum shell.
- ◇ The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

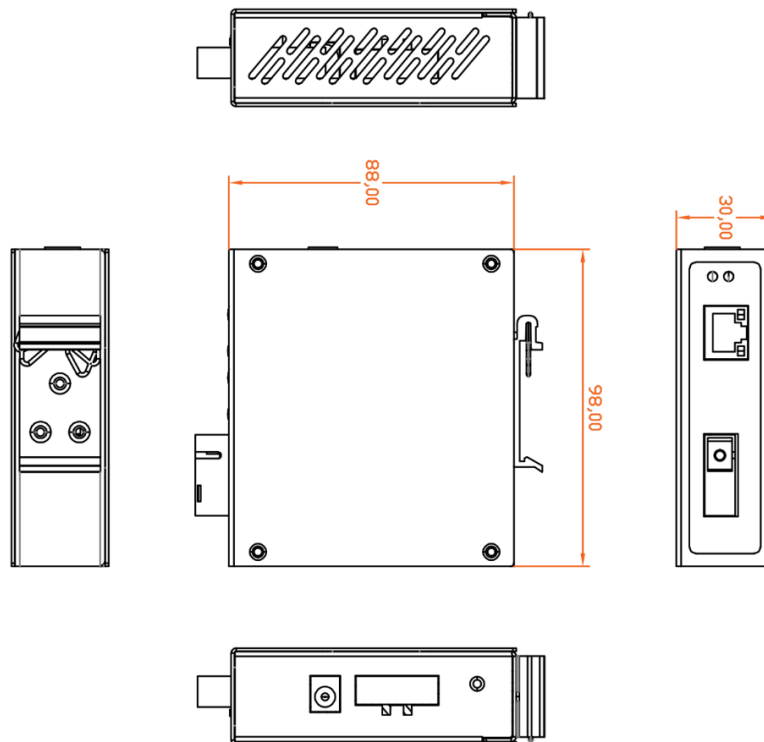
## Technical Specification

| Model                            | GWS-IPS1021PF  |
|----------------------------------|--|
| <b>Interface Characteristics</b> |  |
| Fixed Port                       | 1*155M SC fiber port(Data)<br>1*10/100Base-TX PoE ports (Data/Power)<br>2 set of V+, V- redundant DC power interface (3P Phoenix terminal+DC5521 Jack) |
| Ethernet Port                    | Port 1 support 10/100Base-TX auto-sensing, full/half duplex MDI/MDI-X self-adaption  |

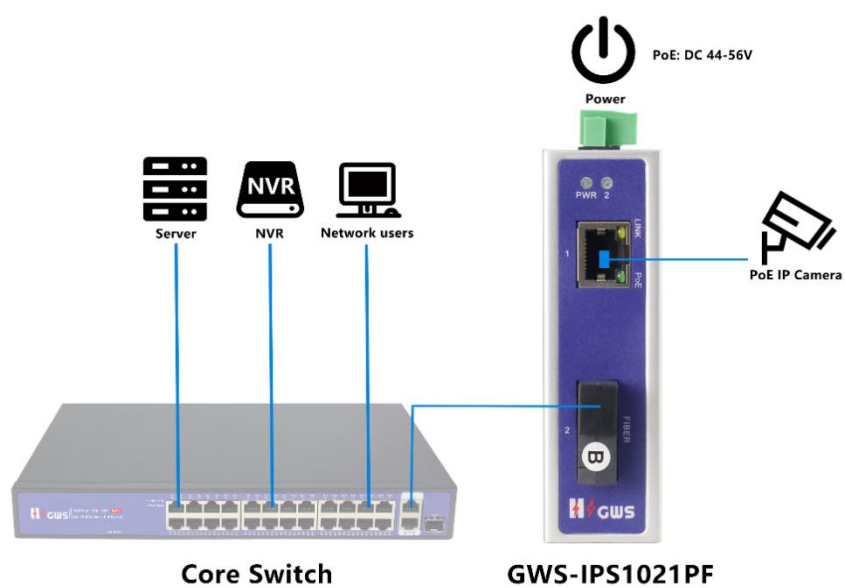
|                               |   |
|-------------------------------|---|
| Twisted Pair                  | 10BASE-T: Cat3,4,5 UTP( $\leq 100$ meter)   |
| Transmission                  | 100BASE-TX: Cat5 or later UTP( $\leq 100$ meter)  |
| Fiber Port                    | Default single-mode dual fiber 20km, SC interface. (optional single-mode single fiber/multi-mode dual fiber optical module) |
| Optical Cable/<br>Distance    | Multi-mode: 850nm/ 0-500m, 1310nm/ 0-2km,<br>Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.                                  |
| <b>Chip Parameter</b>         |   |
| Network Protocol              | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T<br>IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX, IEEE802.3x                         |
| Forwarding Mode               | Store and Forward(Full Wire Speed)  |
| Switching Capacity            | 1.0Gbps (no-blocking)   |
| Forwarding<br>Rate@64byte     | 0.3Mpps   |
| MAC                           | 2K  |
| Buffer Memory                 | 512Kb   |
| Jumbo Frame                   | 2048B   |
| LED Indicator                 | Power: PWR (Green), Network: Link 1(Yellow), PoE: PoE 1(Green)<br>Fiber port: 2 (Green)                                     |
| <b>PoE &amp; Power Supply</b> |   |
| PoE Port                      | Port 1, IEEE802.3af/at  |
| Power Supply Pin              | Default 1/2 (+) 3/6 (-)   |
| Max Power Per Port            | 30W, IEEE802.3af/at   |
| Power Consumption             | Standby<1W, Full load af<30, at<60W   |
| Operating Voltage             | DC44-56V,3P industrial Phoenix terminal+DC5521 Jack, support anti-reverse protection.                                       |
| Power Supply                  | No, optional 48V/36W or 48V/60W industrial power supply   |
| <b>Physical Parameter</b>     |   |
| Operation TEMP /              | -40~+75°C, 5%~90% RH Non condensing   |

|                                     |  |
|-------------------------------------|--|
| Humidity                            |  |
| Storage TEMP / Humidity             | -40~+85°C, 5%~95% RH Non condensing  |
| Dimension (L*W*H)                   | 98*88*30mm   |
| Net /Gross Weight                   | <0.2kg / <0.3kg  |
| Installation                        | Desktop, 35mm DIN rail   |
| <b>Certification &amp; Warranty</b> |  |
| Lightning Protection                | <p>Lightning protection: 6KV 8/20us; Protection level: IP30</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.   |

## Dimension



## Application



## Ordering Information

| Model            | Description  | Power Supply |
|------------------|--|--------------|
| GWS-IPS1021PF    | Unmanaged industrial PoE fiber switch with 1*10/100M PoE ports and 1*155M SC port, Port 1 can support PoE IEEE802.3af/at. By default, the SC port 1310nm/20km single-mode dual-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal +DC Jack connection) and rail mounting.                      | 20W/36W      |
| GWS-IPS1021PF -M | Unmanaged industrial PoE fiber switch with 1*10/100M PoE ports and 1*155M SC port, Port 1 can support PoE IEEE802.3af/at. By default, the SC port 850nm/0.5km or 1310nm/2km multi-mode dual fiber module is configured. It can support dual DC redundant power input (Phoenix terminal +DC Jack connection) and support rail mounting. | 20W/36W      |
| GWS-IPS1021PF -A | Unmanaged industrial PoE fiber switch with 1*10/100M PoE ports and 1*155M uplink SC port . Port 1 can support IEEE 802.3af/at. By default, the SC port 1310nm/20km single-mode single-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal +DC Jack connection) and support rail mounting.       | 20W/36W      |
| GWS-IPS1021PF -B | Unmanaged industrial PoE fiber switch with 1*10/100M PoE ports and 1*155M uplink SC port . Port 1 can support IEEE 802.3af/at. By default, the SC port 1550nm/20km single-mode single-fiber module is configured. It can support dual DC redundant power input (Phoenix terminal +DC Jack connection) and support rail mounting.       | 20W/36W      |

**Note:** The power supply is not included, and needs to be purchased separately

## Packing List

| PACKING LIST | CONTENT                                    | QTY | UNIT |
|--------------|--|-----|------|
|              | 2-port 10/100M industrial PoE fiber switch | 1   | SET  |
|              | User Guide                                 | 1   | PC   |
|              | Warranty Card                              | 1   | PC   |

## Power Supply

| Product                              | Model   | Description  | Unit |
|--------------------------------------|---------|--|------|
| 36W Desktop Power Adaptor            | AP36-52 | Desktop 36W single set of output power adapter<br>Input Voltage:AC 100V~240V 50-60Hz, 0.56A<br>Output Voltage:DC 52V 0.7A<br>Operation Temperature:-20°C—+65°C | PC   |
| 36W DIN Rail Industrial Power Supply | DP36-48 | Din Rail 36W single set of output power supply<br>Input Voltage:AC 100V~240V 50-60Hz,0.56A<br>Output Voltage:DC 48V 0.75A<br>Operation Temperature:-40°C—+70°C | PC   |



## Contact Us



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