

#### **Product Datasheet**

## 2-port Full Gigabit Industrial Ethernet Switch

(GWS-IPS3021F-SFP)



#### **Overview**

The GWS-IPS3021F-SFP is a full gigabit industrial Ethernet fiber switch. It is designed to meet industrial fields and systems. It has 1\*10/100/1000Base-T adaptive RJ45 ports and 1\*1000Base-X SFP fiber port. Each port can support full line-rate forwarding.

GWS-IPS3021F-SFP 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, MTBF up to 35- year, 5-year warranty, unmanaged 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 wire-speed access, Gigabit uplink SFP port
- ♦ Support non-blocking wire-speed forwarding.
- ♦ Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.
- ♦ A combination of Gigabit Ethernet port and Gigabit SFP port to meet the networking requirements of various scenarios.

#### **Stable and reliable**

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

#### **Technical Specification**

Model	GWS-IPS3021F-SFP		
Interface Characteristics			
	1*10/100/1000Base-T RJ45 ports (Data)		
Fixed Port	1*1000Base-X uplink SFP fiber port (Data)		
	2 groups V+, V- redundant DC power interface (3P phoenix terminal+DC5521 Jack)		
Ethernet Port	Port 1 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X		
Emernet i oit	self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meters)		
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meters)		
	1000BASE-T: Cat5e or later UTP(≤100 meters)		
SC Slot Port	Gigabit SFP optical fiber interface, default not include optical modules (optional		
SC Slot Fort	single-mode / multi-mode, single fiber / dual fiber optical module. LC)		
Optical Cable/	Multi-mode: 850nm/ 0-550m,		
Distance Single-mode: 1310nm/ 0-40km, 1550nm/ 0-120km.			



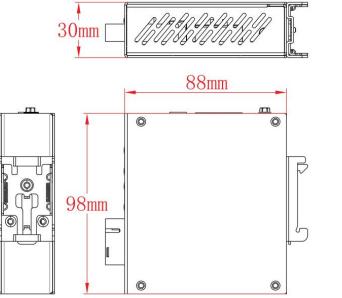
Chip Parameter			
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX		
Network Protocol	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x		
Forwarding Mode	Store and Forward(Full Wire Speed)		
Switching Capacity	12Gbps (no-blocking)		
Forwarding	8.93Mpps		
Rate@64byte			
MAC	2К		
Buffer Memory	2Mb		
Jumbo Frame	9216B		
LED Indicator Power: PWR (Green), Network: Link (Yellow), Fiber port: G2(Green)			
Power Supply			
Power Consumption	Standby<3W, Full load<5W		
Operating Voltage	10-56VDC, 3P industrial Phoenix terminal+DC5521 Jack, support anti-reverse		
Operating voltage	protection.		
Power Supply	Self-purchased, optional 24V/24W industrial power supply or desktop power supply		
Physical Parameter			
Operation TEMP /	-40~+75°C, 5%~90% RH Non condensing		
Humidity	-40~+75 C, 5%~90% KH Non condensing		
Storage TEMP /	-40~+85°C, 5%~95% RH Non condensing		
Humidity	-40~+65 C, 570~7570 KH Ivon condensing		
Dimension (L*W*H)	98*88*30mm		
Net/Gross Weight	<0.2kg / <0.3kg		
Installation Desktop, 35mm DIN rail			
Certification & Warranty			
	Lightning protection: 6KV 8/20us; Protection level: IP30		
Lightning Protection	IEC61000-4-2(ESD):±8kV contact discharge,±15kV air discharge		
	IEC61000-4-3(RS):10V/m(80~1000MHz)		

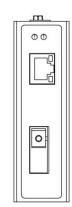


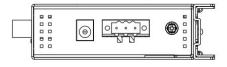
	IEC61000-4-4(EFT): power cable:±4kV; data cable:±2kV
	IEC61000-4-5(Surge):power cable:CM±4kV/DM±2kV; data cable:±4kV
	IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz)
	IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m,1s to 3s
	IEC61000-4-9(pulsed magnet field):1000A/m
	IEC61000-4-10(damped 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	IEC60068-2-6 (anti vibration)
	IEC60068-2-27 (anti shock)
Properties	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.



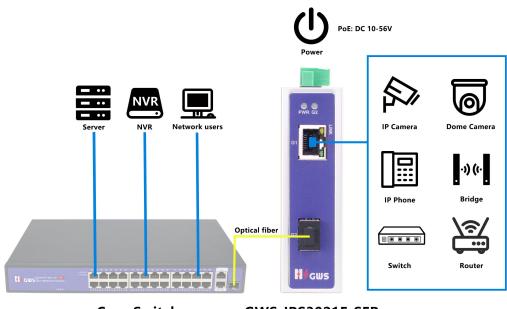
## Dimension







## Application



**Core Switch** 

GWS-IPS3021F-SFP



# **Ordering Information**

Model	Description	Recommended Power Supply	
GWS-IPS3021 F-SFP	Unmanaged industrial Ethernet fiber switch with 1*10/100/1000M RJ45 ports and 1*1000M SFP fiber port. It can support dual DC power input and and DIN rail mounting.	12W/24W	
Note: The SFP optical module and power supply are not included, and need to be purchased separately.			

## **Packing List**

Packing List	Content	Qty	Unit
	2-port full gigabit industrial Ethernet switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

## **Optical Module**

Product	Model	Model Description	
	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
1.25G Optical Module	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	PC



		TX1550nm/RX1310nm, transmission distance: 20km, LC interface, support DDM function, support hot plug and pull.	
	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 24W single set of output power supply Input Voltage: AC100V~240V 50-60Hz, 0.35A Output Voltage: DC24V 1.0A Operation Temperature: -40°C to 70°C	PC

#### **Contact Us**



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