

# DATA SHEET

## 4+1+1F Gigabit Industrial POE Switch



4 \* 10/100/1000M POE network ports



1\* 10/100/1000M uplink network port



1\* 1.25G SC uplink optical port

IS304GP-1G1F



### Specification parameters

**Exchange Capacity :**

**Network management type:** Unmanaged

**Packet forwarding rate:** 8.928Mpps

**Input Voltage:** DC48-57V

**MAC Address:** 2K

**Dimensions:** 135\*95\*35mm

**Jumbo frame:** 9.2KBytes

**Weight:** 0.50kg

### 【 Product Overview 】

The Ruixinlian IS304GP-1G1F series unmanaged industrial PoE switch has 5 gigabit network ports and 1 gigabit SC fiber optic uplink port, with 1-4 ports supporting IEEE 802.3af/at standard PoE power supply, and a single port PoE power of up to 30W. As a PoE power supply device, it can automatically detect and identify power receiving devices that meet the standards and provide power to them through network cables. It can provide power to POE terminal equipment such as industrial wireless APs, network cameras, industrial control IP telephones, PLC modules, and industrial sensors through network cables, meeting the demand for high-density PoE power supply in industrial networking environments. It is suitable for industrial scenarios such as intelligent transportation, rail transit, power industry, mining, petroleum,

maritime transportation, metallurgy, and green energy construction to form an economically efficient, stable, and reliable communication network.

The IS304GP-1G1F switches are all made of aluminum alloy profiles, with strong heat dissipation performance, ensuring their long-term stable operation in outdoor high-temperature environments. The business ports all support 6KV electrostatic lightning protection, redundant dual power input interfaces, rail mounted, non network management models, plug and play, no configuration required, simple and convenient to use;

### 【 Product characteristics 】

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Single port PoE power up to 30W, af/at adaptive, widely compatible with various network terminals;

Optoelectronic hybrid uplink port, flexible adaptation of network cables and fiber optic connections, adaptation of various networking cascades and expansions, making networking simpler;

Industrial grade high bandwidth switching chip, high backplane, large cache, reducing network congestion;

Support IEEE802.3X full duplex intelligent flow control, with no lag in high-definition transmission of large code streams;

Support automatic learning and updating of MAC addresses, and support automatic port flipping (Auto MDI/MDI-X) function;

The business port supports 6KV surge (lightning) protection, PoE short circuit and overload protection, making it safer and more reliable to use;

Aluminum alloy profile metal shell, strong heat dissipation, shielding interference, sturdy, rust resistant, and more durable;

Dual DC redundant power interface, DC48-57V wide voltage input, meeting the wide voltage requirements of industrial environment;

DIN35 rail type installation, IP40 protection level, wide temperature design from -40 °C to +75 °C, more stable and reliable for applications in harsh environments;

Low power consumption, fan free silent design, plug and play, no configuration required, convenient and simple to use.

## 【 Technical specifications 】

Model		IS304GP-1G1F	IS304GP-1G1SF
<b>Port characteristics</b>			
Fixed port	Downlink Port	4 *10/100/1000Base-T RJ45 network ports	
	Uplink Port	1 *10/100/1000Base-T RJ45 network port 1* 1.25G SC optical port	1* 10/100/1000Base-T RJ45 network port 1* Gigabit SFP optical port slot
	PoE port	1-4 ports support af/at standard PoE power supply, with a transmission distance of 100 meters	
Network port characteristics		1-5 port 10/100/1000M adaptive, full/half duplex MDI/MDI-X adaptive	
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)	
Optical port characteristics		Default Gigabit SC port single mode dual fiber optical module (optional order mode/multimode, single fiber/dual fiber optical module)	Gigabit SFP fiber optic interface, default not equipped with optical module, requires separate purchase, (optional order mode/multimode, single fiber/dual fiber optical module, LC/SC)
optical cable		Multimode: 850nm 0-550M, 50 μ M/125 μ M&62.5 μ M/125 μ M Single mode: 1310nm 0-40KM, 1550nm 0-120KM. nine point five μ M/125 μ M	
<b>Switching chip parameters</b>			
Network management type		Non Managed	
Network Protocol		IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x Flow Control; IEEE 802.3af DTE Power via MDI; IEEE 802.3at DTE Power via MDI;	
Forwarding mode		Store and forward (full line speed)	
backplane bandwidth		12Gbps (No obstruction)	
Packet forwarding rate		8.928Mpps	

@ 64byte	
MAC Address Table	2K
Packet forwarding cache	2Mbits
Jumbo frame	9.2Kbytes
Indicator light	Power indicator light: PWR (green); Network indicator light: Link/Act (green); PoE indicator light: PoE (yellow); Light port indicator light: Fiber/SFP (green).
MTBF	500000 hours
<b>POE and power supply characteristics</b>	
POE port	1-4 ports support IEEE802.3af/at standard POE power supply
Power supply pin	Default 1/2 (+), 3/6 (-) 4-core power supply
Single port maximum PoE power	30W, Standard IEEE802.3af/at
input voltage	DC48-57V
Overall power consumption	Standby power consumption: < 5W; Full load power consumption: < 60W@af, 120W@at
Supporting power supply	The default power supply is not compatible and needs to be purchased separately. It is recommended to purchase DC48V/60W or DC48V/120W
<b>Physical specification parameters</b>	
Working temperature/humidity	-40~+75 ° C; 5% to 90% RH without condensation
Storage temperature/humidity	-40~+85°C; 5%~95% RH without condensation
Dimensions (L * W * H)	135*95*35mm
Net weight/Gross weight	<0.5kg / <0.8kg
Installation method	Desktop and rail mounted
<b>Product Certification and Warranty</b>	
Lightning protection/protection level	Port lightning protection: 6KV 8/20us; Protection level: IP40
Applicable industrial standards	IEC61000-4-2 (ESD): ± 8kV contact discharge, ± 15kV air discharge IEC61000-4-3 (RS): 10V/m (80-1000MHz) IEC61000-4-4 (EFT): Power line: ± 4kV; Data line: ± 2kV IEC61000-4-5 (Surge): Power line: CM ± 4kV/DM ± 2kV; Data line: ± 4kV IEC61000-4-6 (RF conduction): 10V (150kHz~80MHz) IEC61000-4-8 (power frequency magnetic field): 100A/m continuous; 1000A/m, 1s to 3s IEC61000-4-9 (pulse magnetic field): 1000A/m IEC61000-4-10 (damped oscillation): 30A/m 1MHz IEC61000-4-12/18 (shock wave): CM 2.5kV, DM 1kV IEC61000-4-16 (common mode conduction): 30V continuous; 300V, 1s FCC Part 15/CISPR22 (EN55022): Class A IEC61000-6-2 (General Industrial Standard)

mechanical properties	IEC60068-2-6 (Anti vibration) IEC60068-2-27 (Impact resistance) IEC60068-2-32 (free fall)
Safety certification	CE, FCC, RoHS, CCC
Warranty period	4 Years

### 【 Packing list 】

	ITEM NAME	Quantity	Unit
Packing list	4+1+1F Gigabit Industrial POE Switch	1	SET
	Quick to use guide	1	PC
	Warranty Card and Certificate of Conformity	1	SET

### 【 Ordering Information 】

Device Name	Device Information	Suggested supporting power supply
<b>IS304GP-1G1F</b>	5 ports non network management 10/100/1000M network ports+1 1.25G uplink SC optical port, industrial POE switch, 1-4 ports supporting IEEE 802.3af/at international standard, default configuration SC port 1310mm/20km single mode dual fiber optical module (optional multi mode dual fiber/single mode single fiber optical module), support dual DC redundant power input (Phoenix terminal connection), and support rail type installation.	48V/60W/120W
<b>IS304GP-1G1SF</b>	Non managed 5 ports 10/100/1000M network ports+1 gigabit uplink SFP optical port slot, industrial POE switch, 1-4 ports supporting IEEE 802.3af/at international standard, supporting dual DC redundant power input (Phoenix terminal connection), and supporting rail mounted installation.	48V/60W/120W

Note: By default, there is no matching power supply. If you need to choose it, please contact the dealer or business manager

### 【 Contact Us. 】



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