

RP-IPGU604-2F

4-P Gigabit UPoE + 2-SFP(1G) slot Industrial PoE Switch

The RP-IPGU604-2F is a high-performance industrial PoE switch featuring 4 Gigabit PoE ports and 2 Gigabit SFP slots. It supports IEEE802.3af/at/bt standards, delivering up to 90W per port, making it ideal for powering high-consumption PDs in industrial applications such as surveillance, wireless APs, and automation systems.

This model offers practical features such as port isolation, 250-meter extended transmission for Ports 1-2, QoS for traffic prioritization, and a PoE watchdog for auto-recovery—all conveniently configured via DIP switches on the top panel. These functions help optimize network reliability and simplify on-site maintenance.

Engineered for industrial environments, the RP-IPGU604-2F supports wide-range 44-57VDC input, with redundant power, and built-in protections against reverse polarity, over-voltage, and over-current. Housed in a fanless IP40-rated metal case, it withstands temperatures from -40°C to 75°C and offers high EMI/EMC immunity, ensuring stable operation in harsh conditions.



Features

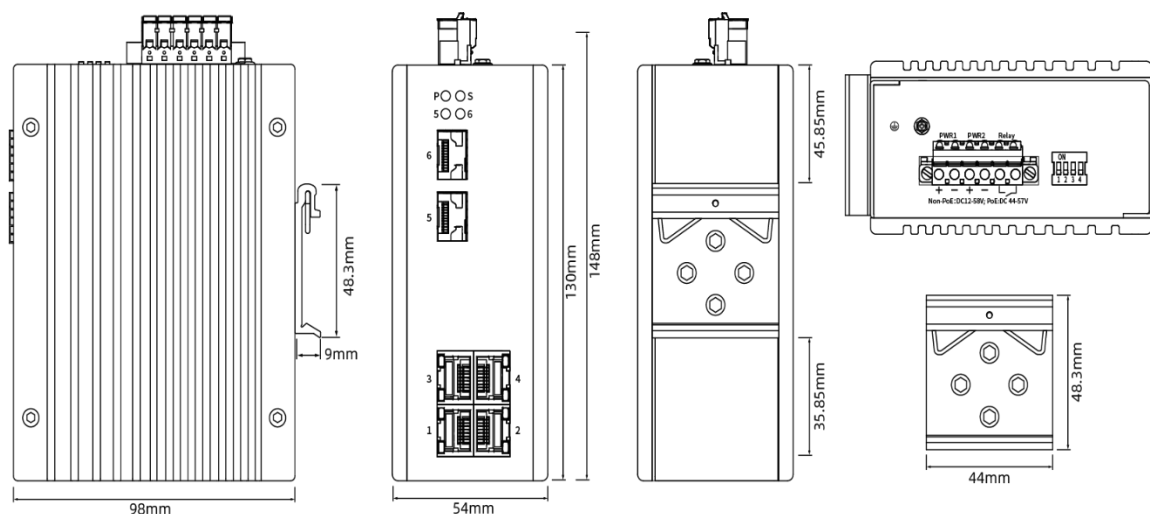
- 4*10/100/1000Base-T RJ45 PoE ports, 2*1000Base-X SFP slots
- DC 44-57V input, redundant power supply with polarity reverse/over-voltage/over-current protection
- Support one channel output relay alarm (terminal block Pin 5/6) for DC power failure
- Complies with IEEE802.3af PoE, IEEE802.3at PoE+ and IEEE802.3bt PoE++ standard
- Support powerful Dip switch function: 1. Port isolation; 2. 250m long distance; 3. QoS ; 4. PoE watchdog
- Support 10K Bytes Jumbo frame
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40°C ~+75°C

Specifications

Standards	<ul style="list-style-type: none"> • IEEE 802.3 10Base-T Ethernet • IEEE 802.3u Fast Ethernet • IEEE 802.3ab Gigabit Ethernet • IEEE 802.3x Full-Duplex Flow Control • IEEE 802.3az Energy Efficient Ethernet • IEEE 802.3af • IEEE 802.3at • IEEE 802.3bt
Interface	<ul style="list-style-type: none"> • 4 x 10/100/1000Base-T PoE • 2 x 1000Base-X SFP
Dip Switch	<ul style="list-style-type: none"> • Link aggregation • 250m long distance mode (1-2 ports) • QoS (1-2 ports) • PoE watchdog
Switching capacity	<ul style="list-style-type: none"> • 12G
Packet forwarding rate	<ul style="list-style-type: none"> • 17.8Mpps
MAC address table	<ul style="list-style-type: none"> • 16K
VLAN	<ul style="list-style-type: none"> • 4K
Buffer	<ul style="list-style-type: none"> • 2M
Forwarding delay	<ul style="list-style-type: none"> • <5us
Jumbo Frame	<ul style="list-style-type: none"> • Support 10Kbytes
MDX/MIDX	<ul style="list-style-type: none"> • Support
Watchdog	<ul style="list-style-type: none"> • Support
Network Topology	
Star topology	<ul style="list-style-type: none"> • Support
Bus topology	<ul style="list-style-type: none"> • Support
Tree Topology	<ul style="list-style-type: none"> • Support
Power parameters	
Input voltage	<ul style="list-style-type: none"> • 44-57VDC(802.3af) • 52-57VDC(802.3at/802.3bt) • redundant power input
Input current	<ul style="list-style-type: none"> • 5.7A Max
PoE power budget	<ul style="list-style-type: none"> • Full loading without PoE ≤8W • PoE power budget ≤240W
Connector	<ul style="list-style-type: none"> • Removable 6-pin terminal block
Alarm port	<ul style="list-style-type: none"> • One relay output for power failure. Alarm relay current carry ability: 1A@24VDC
Reverse polarity protection	<ul style="list-style-type: none"> • Support
Over-voltage protection	<ul style="list-style-type: none"> • Support
Over-current protection	<ul style="list-style-type: none"> • Support
Mechanical structure	
LED Indicators	<ul style="list-style-type: none"> • P (Power indicator) Green • S (System status indicator) Red • 1-4 (Copper ports indicators) Green / (PoE status

	indicators) Yellow <ul style="list-style-type: none"> 5-6 (Fiber ports) Green
Case protection	<ul style="list-style-type: none"> IP40
Installation method	<ul style="list-style-type: none"> Din-rail
Dimension	<ul style="list-style-type: none"> 54 x98 x 130mm (WxHxD)
Environment	<ul style="list-style-type: none"> Operating temperature: -40°C~+75°C Storage temperature -40°C~+85°C Operating Humidity: 5 to 95% (Non-Condensing)
EMS	<ul style="list-style-type: none"> Surge protection of power: IEC 61000-4-5 DC:6KV/4KV (8/20us) Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz:10 V/m EFT: IEC 61000-4-4 power interface: 4K ; Ethernet ports: 2K CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Level 4 (8K/15K)
EMI	<ul style="list-style-type: none"> FCC Part 15B Class A
Certification	<ul style="list-style-type: none"> CE/FCC/RoHS

Dimension



Ordering information

RP-IPGU604-2F 4-P Gigabit UPoE + 2-SFP(1G) slot Industrial PoE Switch (240W)

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