RP-ISG401F

5-P slim type Gigabit Industrial Switch

RP-ISG401F is a reliable networking device specifically designed for industrial applications, offering convenient and hassle-free setup. It features 4 Gigabit Ethernet ports along with 1 SFP (100/1G) slot, enabling seamless connectivity for a variety of Ethernet devices such as Ethernet I/O, IP-Cameras, and other Ethernet switches. The device's user-friendly setup process ensures ease of use for the users.

RP-ISG401F supports wide power input voltage range of +12 ~ +56Vdc. This feature enhances application flexibility and safeguards equipment against voltage fluctuations, providing reliability even in environments with unregulated power sources. It ensures that systems remain safe and reliable, minimizing the risk of downtime or damage due to power variations.

RP-ISG401F delivers a non-blocking switch fabric and achieves wire-speed throughput of up to 10Gbps. It can handle packet transfers at maximum speed without the risk of packet loss, ensuring efficient and seamless data transmission. RP-ISG401F equips with compact IP-30 standard metal case, providing protection and durability. It can be conveniently mounted either on a DIN rail or a wall, allowing for efficient utilization of cabinet space in industrial settings.
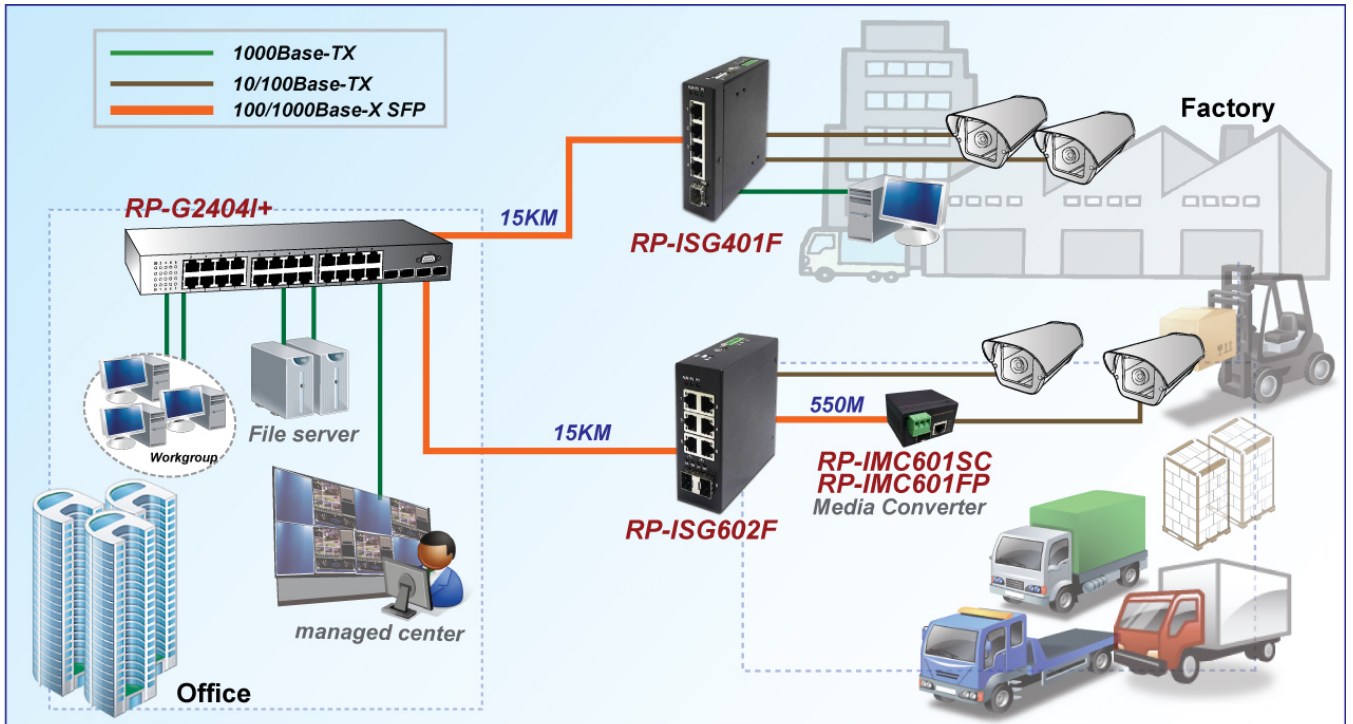
Features

- RJ-45 port support Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 10Gbps
- IEEE 802.3x flow control & back-pressure
- 9K Jumbo frames
- 2K MAC forwarding addresses
- L2 wire-speed switching engine
- Queues per port: 4
- Support 802.1p & TOS/DS QoS
- Support Multicast/Broadcast/Flooding Storm Control
- Wide-range Redundant Power design 12~56 VDC, removable terminal block for two power input
- Reverse power protection
- Hardware DIP-switch to enable/disable warning function
- IP-30 metal case protection
- DIN rail and wall mount design

Specifications

Standards	• IEEE 802.3 10Base-T Ethernet • IEEE 802.3u 100Base-TX Fast Ethernet • IEEE 802.3ab 1000Base-T Gigabit Ethernet • IEEE 802.3z 1000Base-X Gigabit Ethernet • IEEE802.3x Flow Control and Back Pressure
Switch Architecture	• Back-plane (Switching Fabric): 10Gbps
Transfer Rate	• 14,880pps for Ethernet port • 148,800pps for Fast Ethernet port • 1,488,000pps for Gigabit Fiber Ethernet port
Data Processing	• Store and Forward
Flow Control	• IEEE 802.3x Flow Control and Back Pressure
Jumbo Frame	• 9K Bytes
MAC Table Size	• 2K
Network Connector	• RJ-45 Port: 10/100/1000BaseT(X) auto negotiation, Auto MDI/MDI-X function, Full/Half duplex • SFP Port: 100/1000Base SFP slot
Network Cable	• UTP/STP above Cat.5e Cable, EIA/TIA-568 100-ohm (100m)
Protocol	• CSMA/CD
Flow control	• IEEE 802.3x (Full Duplex) and Back-Pressure (Half Duplex)
QoS	• IEEE 802.1p
Number of queues	• 4
Traffic Shaper	• Port-based Port shaping
Storm Control	• Multicast/Broadcast/Flooding Storm Control per system basis enable/disable
Dip switch	• Dip 1: On/Off - Power alarm • Dip 2: On/Off - Broadcast storm rate limit • Dip 3~6: Not used
LED indicators	• P1(Green), P2(Green), Alarm (Red) • Link/Act (Green): Ethernet link up • Link/Act (Yellow): On- 1000Mbps ; Off-10Mbps or 100 Mbps
Power Consumption	• 4.5W@48VDC full load
Power Supply	• Redundant Input Terminals 12-56 VDC
Operating Temperature	• -40 to +75°C (cold startup at -40°C)
Storage Temperature	• -40 to +85 °C
Operating Humidity	• 5% to 95% (Non-condensing)
Case	• Rugged Metal, IP30 Protection
Dimension	• 112.2(H) x 29.1(W) x 89.4(D) (without DIN rail clip)
Installation mounting	• DIN Rail mounting and Wall Mounting
Certification	• CE/FCC
EMI	• FCC Part 15, CISPR 22 (EN55022) Class A IEC61000-4-2, -3, -4, -5, -6 (Level 3)

Application

Ordering information

RP-ISG401F   4-P Gigabit +1-SFP(100/1G) slot slim type Industrial Switch