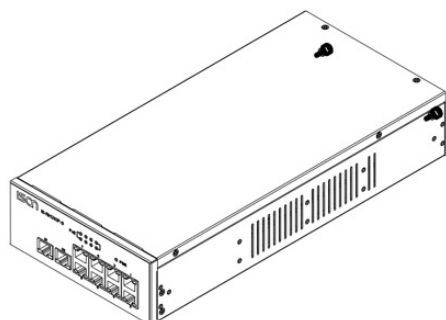


IS-RH310P Series

10-ports Rack Mount Unmanaged Layer 2 Industrial PoE Switch



The IS-RH310P Series unmanaged 10-port Ethernet switch with 2GTX/FX port and up to 8 10/100Mb IEEE 802.3af/at PoE ports provide easy to use plug-n-play applications; The cost effective IS-RH310P Series unmanaged switches can provide power and data directly through a single Ethernet cable, which is ideal for factory production line, wide-area distributed wireless network backbone or IP Surveillance system. The IS-RH310P Series switches are especially good for Building automation, CCTV, ITS and security/safety related applications.



Key features

- ▶ Provide 8 10/100Mbps Copper ports plus 2 Gigabit Copper ports or 2 Gigabit SFP Slots
- ▶ Support up to 8 PoE ports, IEEE 802.3af/at PoE, 15.4/30 Watts output, Full Load
- ▶ Layer 2 Line-Speed Switching Fabric, non-blocking
- ▶ AC Power Input 100/240 VAC, 50Hz ~60Hz
- ▶ 10KV Lightning Protection (Power Module)
- ▶ Rack Mount, Wall Mount installation
- ▶ -40~75°C operating temperature
- ▶ IP 30 Protection
- ▶ Rugged Fan less Design
- ▶ 2KV Surge immunity on RJ45 ports
- ▶ 1.5KV Hipot for port isolation

Specification

Ethernet

| | |
|-------------------------------|--|
| Operating Mode | Store and Forward, L2 wire-speed/non-blocking switching engine |
| Devices Supported | All IEEE 802.3 compliant devices are supported |
| MAC addresses | 16K |
| Packet Buffer | 4 Mbits |
| Switching Fabric / Back Plane | 5.6Gbps |

RJ45 Copper ports

| | |
|--------------------------|---|
| Speed | 8 10/100Mbps plus 2 10/100/1000Mbps |
| MDI/MDIX Auto-crossover | Support straight or cross wired cables |
| Auto-negotiation/Duplex | 10/100/1000 Mbps speed auto-negotiation; Full & Half Duplex |
| Ethernet Port Protection | 1.5KV VRMS 1minute (Hipot), 2KV surge immunity on RJ45 Copper ports |
| PoE | IEEE 802.3af/at (15.4/30 Watt), PoE/PoE+ |
| Cable Requirements | Cat5e or better |
| Cable length | 100 meters (Max.) |

Fiber Ports

| | |
|----------------------|--|
| Port Types supported | 1000 Base SFP Slot |
| Fiber port connector | LC/RJ45 connector for fiber ports |
| Optimal fiber cable | Typical 50 or 62.5/125 μm for multimode (mm) Typical 8 or 9/125 μm for single mode (sm) |

Protocols & Standards

IEEE 802.3, IEEE 802.3x, Flow Control, Back Pressure, TCP/UDP, IEEE 802.3af/at

Power

| | |
|---------------------|----------------------------|
| Power Input | AC/DC Input, IEC Connector |
| Input Voltage Range | 100/240 VAC, 50Hz~60Hz |
| Power Consumption | 10 Watt (Without PD Load), |
| Power Budget | Switch plus PDs= 250W max |

Indicators

| | | |
|------------------------------------|-----------------|---|
| PoE | On, Green | Port is linked to Power Device |
| | Off | No Power Device is connected |
| PWR | On Green | Power line has power |
| | Off | Power line disconnect or does not have supply power |
| 1 to N 10/100 Mbps port Link/Act | On, Yellow | Ethernet link up, but no traffic is detected |
| | Flashing Yellow | Ethernet link up and there is traffic detected |
| | Off | Ethernet link down |
| G1, G2 Giga port Link/Act | On, Yellow | Ethernet link up, but no traffic is detected |
| | Flashing Yellow | Ethernet link up and there is traffic detected |
| | Off | Ethernet link down |
| G1, G2 Giga port Speed | On, Yellow | A 1000Mbps connection is detected |
| | Off | No link, or a 10Mbps or 100 Mbps connection is detected |
| SFP 1 to N port (N=0,1,2) Link/Act | On, Green | SFP port speed 1000Mbps connection is detected. |
| | Off | No link |

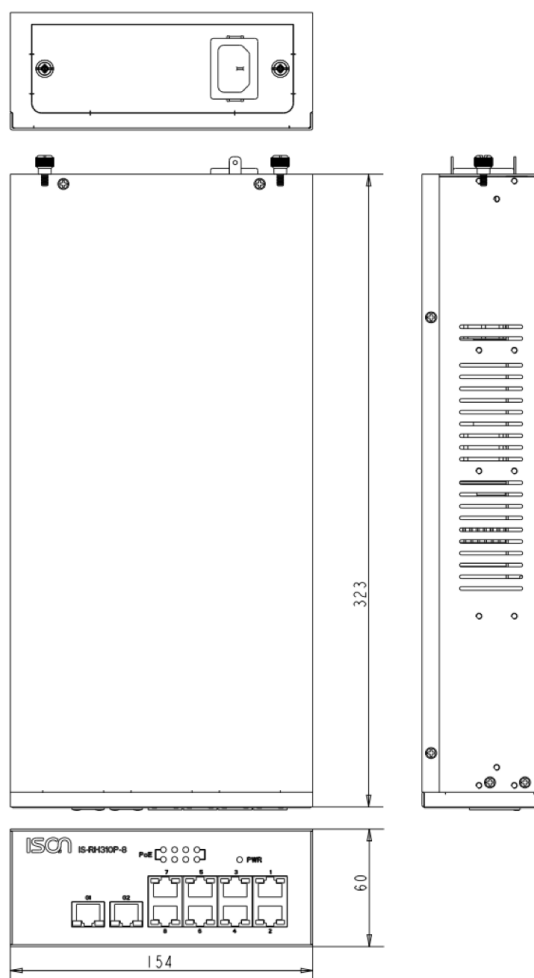
Environmental and Compliances

| | |
|-----------------------------|---|
| Operating Temperature | -40 to +75°C (cold startup at -40°C) (-40 to +167°F, cold startup at -40°F) |
| Storage Temperature | -40 to +85°C (-40 to +185°F) |
| Humidity | 5 to 95% RH (non-condensing) |
| Environmental Air | No corrosive gases permitted |
| Vibration, shock, free fall | IEC-60068-2-6, -27, -32 |
| Agency Approvals | CE |
| EMI Emissions | FCC Part 15, EN55032/CISPR32, Class A |
| EMS | IEC-61000-4-2 (ESD): +/- 6kv (contact), +/- 8kv(air) IEC-61000-4-3 (RS): 10V/m (80MHz ~2GHz) IEC-61000-4-4 (EFT): Power Port: +/- 2kV; Data Port: +/- 1kV IEC-61000-4-5 (Surge): Power Port: +/- 1kV/DM, +/- 2kV/CM; Data Port +/- 2kV IEC-61000-4-6 (CS): 10V (150kHz ~ 80MHz) |
| RoHS & WEEE | RoHS (Pb free) and WEEE Compliant |
| MTBF | >200,000 hrs |

Mechanical

| | |
|--------------|------------------------------|
| Protection | Metal case, IP30 |
| Dimension | 60mm x 154mm x 323mm (LxWxD) |
| Weight | TBD |
| Installation | Rack Mount, Wall mount |

Dimension Diagram



Ordering Information

| Available Models | Description | 10/100Mb TX | 10/100/1000Mb TX | 1000Mb FX |
|------------------|--|-------------|------------------|-----------|
| IS-RH310P-2F-8 | Industrial 10 port Gigabit Layer 2 unmanaged Switch, 8 PoE | 8 (8 PoE) | 0 | 2 |
| IS-RH310P-8 | Industrial 10 port Gigabit Layer 2 unmanaged Switch, 8 PoE | 8 (8 PoE) | 2 | 0 |

Accessories

1. Gigabit SFP Modules

Package Checklist

- IS-RH310P series Switch
- Quick Installation Guide (Printed)
- Rack Mount kit