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# Industrial 5-Port Gigabit PoE+ Din-Rail Switch with 1 SFP Port

IGS-1105P

## FEATURES

- 4 Gigabit Ethernet PoE+ ports and 1 SFP uplink port
- 6KV Surge protection to avoid damage of the switch and connected devices
- Power redundancy by providing Dual-DC power inputs to ensure stable and reliable network service
- P-fail relay with alarm and notification when an event of power failure occurs
- Supports QoS 802.1p for video & voice traffic priority
- Wide operating temperature range of -20° ~+70° C (-4° ~+158° F)
- IEEE 802.3af/at PoE compliant, supports up to 30W per port (power budget: up to 120Watts)
- Guaranteed PoE long distance to 200 meters
- Power backfeed protection to avoid damaging the PoE ports
- Flexible deployment with DIN-Rail mounting kit and wall-mount feature
- IP30-rated, fanless rugged industrial design for harsh environments

## OVERVIEW

The EDIMAX IGS-1105P Industrial 5-Port Gigabit PoE+ Din-Rail Switch comes with 1 SFP uplink port providing total PoE power budget up to 120Watts and high-speed connections and for enduring, reliable, flexible industrial network deployment. Supporting the redundancy power input, P-fail relay, 6KV surge and power backfeed protection features, the IGS-1105P protects the system with uninterrupted data transmission and damage to ensure the network connection reliability.

The IGS-1105P is designed with long range PoE, hardware 802.1q QoS, 802. IP30-rating metal housing, DIN-rail/wall-mounted hole, and wide operating temperatures from -20° (-4°F) up to 70°C (158°F). It offers an easy efficient data transfer, plug-and-play, flexible-deployment, cost-effective, energy-efficient solution for various harsh industrial networks, such as automotive, factory automation, oil and gas, mining, military, transportation, substation, energy, and outdoor applications of railways, roads, tunnels, and smart cities, city surveillance, and traffic monitoring.

### Industrial Hardened Design for Durable Performance Network

With industrial hardened design, the IGS-1105P IP30-rated housing can operate across a wide range of temperatures and is equipped with 6KV lightning surge and power protection. It increases the geographic range for possible deployments and eliminates hidden costs with a longer product life cycle.

### Power Redundancy for Stable and Reliable Network Service

The industrial switch supports power redundancy with three power inputs to eliminate unexpected risks and ensure stable and reliable network service quality.

### Long Range PoE Guaranteed 200 Meters for Flexible Deployment

While general Ethernet switches have a distance restriction of 100 meters (328 ft.), the IGS-1105P long-range PoE features provides extended the data and power delivery distance to 200 meters (656 ft.) at 10Mbps full-duplex operation on a per-port basis. As a result, it's ideal for long-distance applications such as IP cameras, VoIP phones and PoE-enabled IoT devices at remote locations.

## Power Backfeed Protection for Keeping Network Safe

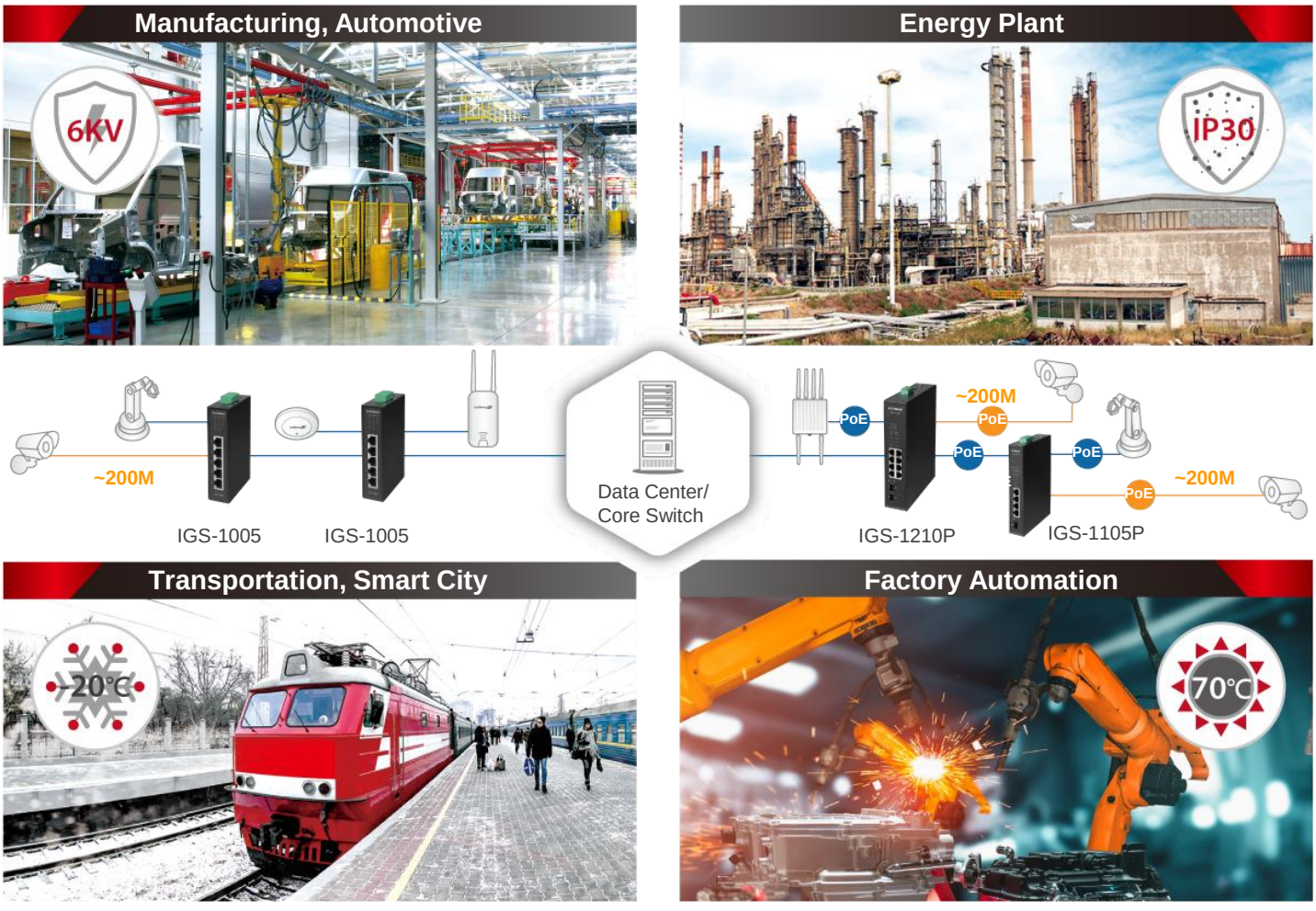
The IGS-1105P supplies up to 30W of electricity per port and has a total power supply of 120W (Max.) to power any 802.3at or 802.3af compliant PoE/PoE+ devices. Furthermore, the IGS-1105P can verify whether the connected device is 802.3at or 802.3af compliant with built-in PoE detection capability. Moreover, with the power backfeed protection, the IGS-1105P can avoid damaging the PoE ports while the non-standard PSE (Power Sourcing Equipments) are connected.

## IEEE 802.1p QoS for Improved Traffic Efficiency

Supports 802.1p QoS for ensuring first priority for voice and video traffic for reduced package loss, lower latency and jitter on the network.

## APPLICATION DIAGRAM

### For Harsh Environments in IIoT and Smart City




## INDUSTRIAL SERIES

GS-1005
Industrial 5-Port
Gigabit Switch

GS-1105P
Industrial 5-Port
Gigabit PoE+ Switch
with 1 SPF Port

GS-1210P
Industrial 10-Port
Gigabit PoE+ Switch
with 2 SPF Ports

## SPECIFICATIONS

| | |
|---|---|
| **HARDWARE** | |
| Port | 4 x RJ-45 10/100/1000Base-T Gigabit PoE+ Ports<br>1 x SFP Port |
| Connector | Removable 6-pin Terminal Block (Pin1/2 for Power 1, Pin 3/4 for P-Fail (Power failure Alarm Relay), Pin 5/6 for Power 2)<br>Grounding Point with Screw<br>DC In (48-55V) Power Jack (for Power 3) |
| LED Indicators | Per Port: Link/Act, PoE<br>Per Unit: PoE/Alert, PWR1, PWR2, PWR3, P-Fail |
| Power Input | • External Power Supply<br>– Power Input: 48V~55VDC (Terminal Block)<br>– Redundant Power Input:48~55VDC (Terminal Block)<br>– DC Input: 48~55VDC<br>• Operating Current: 0.25A@50VDC,12.5W (System) |
| Mounting | DIN-rail Mount (DIN-rail Mount kit included) / Wall Mount |
| Housing | Metal, IP30-rated |
| Fan | Fanless |
| Dimensions | 180(H) x 32(D) x 130(W) mm |
| Weight | 675g |
| **PERFORMANCE** | |
| Switching Capacity | 10Gbps |
| MAC Address | 2K |
| Buffer Memory | 2Mb |
| Jumbo Frame | 9KB |
| Transmission Method | Store and Forward |
| Filtering/Forwarding Rates | Max. 7.44Mpps<br>1000Mbps port – 1,488,000pps<br>100Mbps port – 148,800pps<br>10Mbps port – 14,880pps |
| Advanced Feature | IEEE 802.1p Quality of Service (QoS) |
| **POWER OVER ETHERNET** | |
| Standard | IEEE 802.3af (PoE), IEEE 802.3at (PoE+) |
| Power Output | Up to 30W per Port |
| Total PoE Power Budget | Max. 120W |
| Pin Assignment | 1/2(+), 3/6(-) |
| Advanced Feature | Guaranteed PoE Long Range to 200 Meters at 10Mbps<br>Power Backfeed Protection |
| **OTHERS** | |
| Protection | Reverse Polarity<br>Overload Current<br>6KV Surge per RJ45 Port |
| MTBF | >1,000,000 hours @25°C (Mean Time Between Failure) |
| Standard | IEEE 802.3 10BaseT Ethernet<br>IEEE 802.3u 100BaseTX Fast Ethernet<br>IEEE 802.3ab 1000BaseT Gigabit Ethernet<br>IEEE 802.3z 1000BaseSX/LX<br>IEEE 802.3af Power over Ethernet (PoE)<br>IEEE 802.3at Power over Ethernet Plus (PoE+)<br>IEEE 802.1p QoS (Quality of Service)<br>IEEE 802.3x Full-duplex and flow control<br>IEEE 802.3az Energy efficient Ethernet |
| Environmental Condition | Temperature:<br>Operating: -20~70°C (-4~158°F )<br>Storage: -40~85°C (-40~185°F)<br>Humidity:<br>Operating : 10~95% (NonCondensing)<br>Storage : 10~95% (NonCondensing) |
| Certification | CE, FCC, BSMI |

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.





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