Industrial 10-Port Gigabit PoE+ Din-Rail Switch with 2 SFP Ports

IGS-1210P

FEATURES

- 8 Gigabit Ethernet PoE+ ports and 2 SFP uplink ports
- 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 240Watts)
- 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-1210P Industrial 10-Port Gigabit PoE+ Din-Rail Switch comes with 2 SFP uplink port providing total PoE power budget up to 240Watts 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-1210P protects the system with uninterrupted data transmission and damage to ensure the network connection reliability.

The IGS-1210P 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°C (-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-1210P 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-1210P 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.

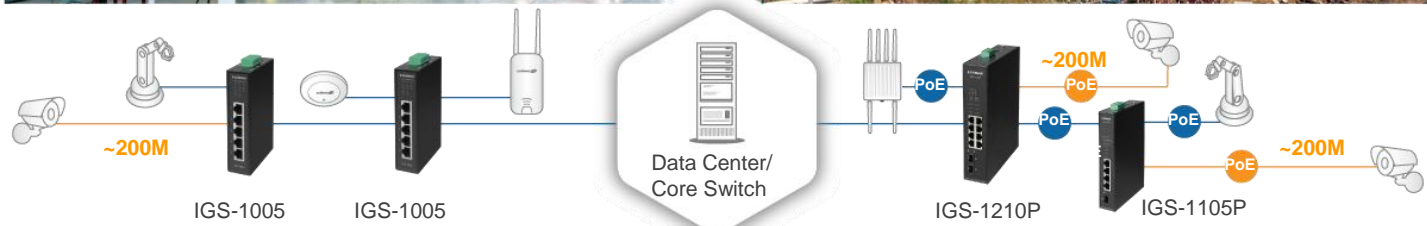## Power Backfeed Protection for Keeping Network Safe

The IGS-1210P supplies up to 30W of electricity per port and has a total power supply of 240W (Max.) to power any 802.3at or 802.3af compliant PoE/PoE+ devices. Furthermore, the IGS-1210P 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-1210P 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 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

Manufacturing, Automotive

Energy Plant

Transportation, Smart City

Factory Automation

IGS-1005   IGS-1005   Data Center/ Core Switch   IGS-1210P   IGS-1105P

Gigabit Fast Ethernet	Long Range Fast Ethernet
Gigabit PoE Fast Ethernet	Long Range PoE Fast Ethernet

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	8 x RJ-45 10/100/1000Base-T Gigabit PoE+ Ports 2 x SFP Ports
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) Grounding Point with Screw DC In (48-55V) Power Jack (for Power 3)
LED Indicators	Per Port: Link/Act, PoE Per Unit: PoE/Alert, PWR1, PWR2, PWR3, P-Fail

Power Input	• External Power Supply
	  – Power Input: 48V~55VDC (Terminal Block)
	  – Redundant Power Input:48~55VDC (Terminal Block)
	  – DC Input: 48~55VDC
	• 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	210(H) x 45(D) x 160.6(W) mm
Weight	1118g

PERFORMANCE

Switching Capacity	20Gbps
MAC Address	4K
Buffer Memory	1.5Mb
Jumbo Frame	9KB
Transmission Method	Store and Forward
Filtering/Forwarding Rates	Max. 14.88Mpps 1000Mbps port – 1,488,000pps 100Mbps port – 148,800pps 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. 240W
Pin Assignment	1/2(+), 3/6(-)
Advanced Feature	Guaranteed PoE Long Range to 200 Meters at 10Mbps Power Backfeed Protection

OTHERS

Protection	Reverse Polarity Overload Current 6KV Surge per RJ45 Port	
MTBF	>1,000,000 hours @25°C (Mean Time Between Failure)	
Standard	IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet IEEE 802.3z 1000BaseSX/LX IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet Plus (PoE+) IEEE 802.1p QoS (Quality of Service) IEEE 802.3x Full-duplex and flow control IEEE 802.3az Energy efficient Ethernet	
Environmental Condition	Temperature: Operating: -20~70°C (-4~158°F) Storage: -40~85°C (-40~185°F)	Humidity: Operating : 10~95% (NonCondensing) 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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