



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

IGS-1210P V2

### 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 V2 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 V2 protects the system with uninterrupted data transmission and damage to ensure the network connection reliability.

The IGS-1210P V2 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 V2 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 V2 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 V2 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 V2 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 V2 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



## INDUSTRIAL SERIES



**IGS-1005**  
Industrial 5-Port  
Gigabit Switch



**IGS-1105P**  
Industrial 5-Port  
Gigabit PoE+ Switch  
with 1 SFP Port



**IGS-1210P V2**  
Industrial 10-Port  
Gigabit PoE+ Switch  
with 2 SFP 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 (Pin 1/2 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	<ul style="list-style-type: none"> <li>• External Power Supply               <ul style="list-style-type: none"> <li>– Power Input: 48V~55VDC (Terminal Block)</li> <li>– Redundant Power Input: 48~55VDC (Terminal Block)</li> <li>– DC Input: 48~55VDC</li> </ul> </li> <li>• Operating Current: 0.25A@50VDC, 12.5W (System)</li> </ul>	
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 (8.27 (W) x 1.77 (D) x 6.32 (H) inches)	
Weight	1118g (2.46lb)	
PERFORMANCE		
Switching Capacity / Backplane	20Gbps	
Forwarding Rates	Max. 14.88Mpps	
MAC Address Table	4K	
Jumbo Frame	9KB	
Packet Buffer	1.5Mb	
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	<ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T Ethernet</li> <li>• IEEE 802.3u 100Base-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000Base-T Gigabit Ethernet</li> <li>• IEEE 802.3z 1000Base-SX/LX Gigabit Ethernet over fiber</li> <li>• IEEE 802.3af Power over Ethernet (PoE)</li> <li>• IEEE 802.3at Power over Ethernet Plus (PoE+)</li> <li>• IEEE 802.1p QoS (Quality of Service)</li> <li>• IEEE 802.3x Full-duplex and flow control</li> <li>• IEEE 802.3az Energy efficient Ethernet</li> </ul>	
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	