

# IPSW-08 Data Sheet and User Guide

## 12-port Full Gigabit Industrial PoE Switch

- 10\*10/100/1000M RJ45 ports and 2\*1000M uplink SFP slot ports, port 1-8 supports PoE.
- Dual uplink SFP fiber ports, long-distance transmission
- Dual power supply redundant inputs
- 6KV port lightning protection
- -40°C—+80°C operation temperature
- Large cache military-level master chip configuration
- IP40 protection aluminum alloy case
- 5-year warranty



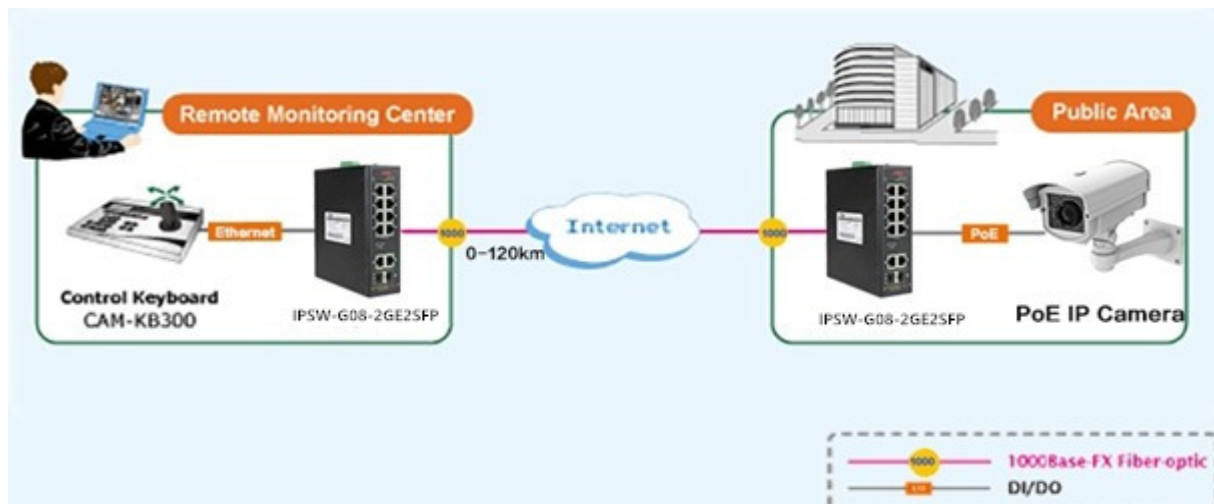
## OVERVIEW

**IPSW-G08-2GE2SFP** is a full Gigabit Industrial PoE Switch with 10 10/100/1000Base-T RJ45 ports and 2 1000Base-X uplink SFP slot ports. Port 1-8 supports IEEE 802.3af/at PoE standards and single-port PoE power is up to 30W. As a PoE power supply device, it automatically detects and recognizes the power receiving equipment that meets the standards and supply power through the network cable. It can supply power to PoE terminal device such as wireless AP, IP camera, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, sea transportation. Industrial scenes such as metallurgy and green energy construction form a cost-effective, stable and reliable communication network. It is unmanaged, plug and play, no settings needed and easy to use.

## FEATURE

### ■ Gigabit Ethernet port access, uplink gigabit dual SFP ports

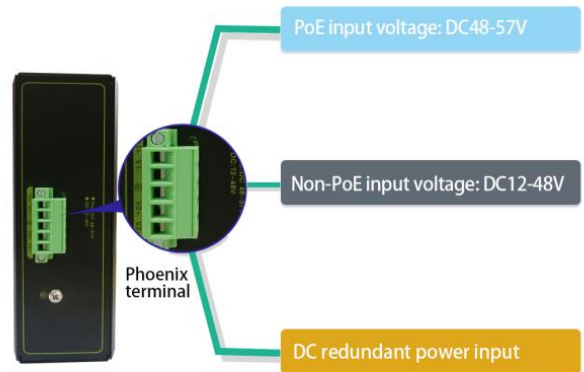
- ◇ Uplink gigabit dual fiber ports, easy to achieve high bandwidth and long-distance transmission.
- ◇ Dual SFP fiber ports can cascade, chain, compatible with SFP module connection.



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## ■ Port lightning protection, wide voltage input

- ◇ Contact discharge 8KV, air discharge 15KV; port lightning protection common mode 4KV, differential mode 2KV
- ◇ Industrial dual power input
- ◇ DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V



Contact discharge 8KV

Air discharge 15KV

Port lightning protection 6KV

## ■ Intelligent PoE power supply

- ◇ 8\*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage and other scenarios.
- ◇ IEEE 802.3af/at PoE standards, without damaging non-PoE devices.
- ◇ Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

## ■ Stable and reliable

- ◇ Low power consumption, No fan low noise design, aluminum shell.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A, PoE.



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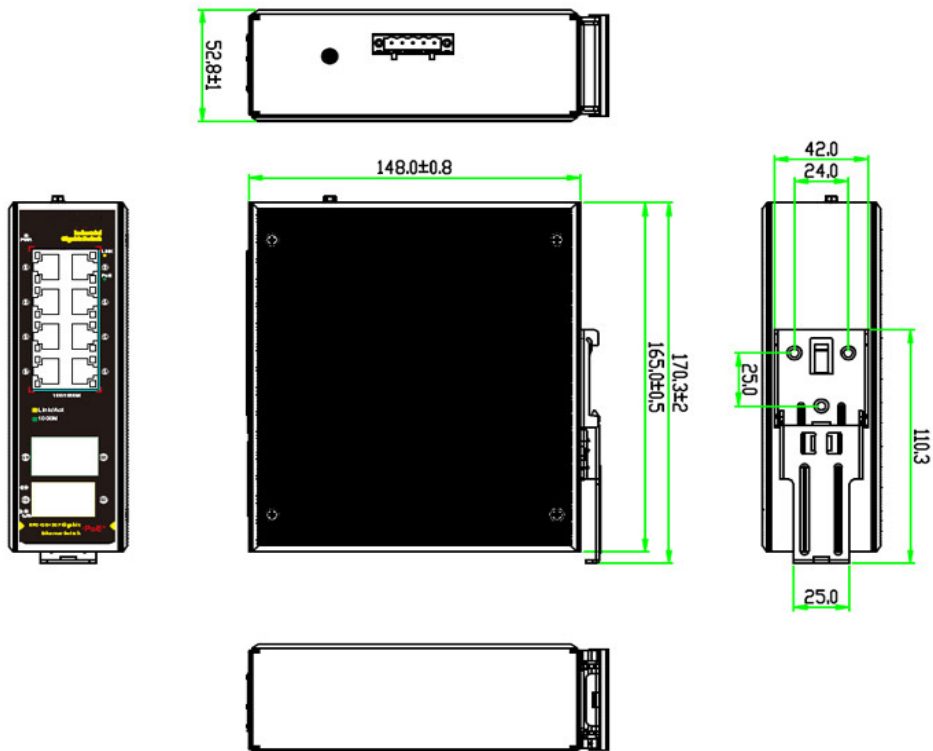
## TECHNICAL SPECIFICATION

Model	IPSW-G08-2GE2SFP	
<b>Interface Characteristics</b>		
Fixed Port	8*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2*1000Base-X uplink SFP fiber slot ports (Data) 2 sets of V+, V- redundant DC power port (5P Phoenix terminal)	
Ethernet Port	10/100/1000Base-T, Auto-sensing, full/half duplex MDI/MDI-X self-adaption	
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-T: Cat5e or later UTP (≤100 meter)	
Fiber Port	Gigabit SFP optical fiber port, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module, LC)	
Optical Cable	Multi-mode: 850nm 0 ~ 550M, 1310nm 0 ~ 2Km Single mode: 1310nm 0 ~ 40Km, 1550nm 0 ~ 120Km	
<b>Chip Parameter</b>		
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	24Gbps	
Forwarding Rate@64byte	17.86Mpps	
MAC	8K	
Buffer Memory	4M	
Jumbo Frames	9.2K	
LED Indicator	Power: PWR (green); Network: Link, Link/Act (yellow); PoE: PoE (green)	
<b>PoE &amp; Power</b>		
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE	
Power Supply Pin	1/2 (+), 3/6 (-)	
Max Power Per Port	30W; IEEE802.3af/at	
Total PWR / Input Voltage	120W/48VDC	240W/48VDC
Power Consumption	Standby:<8W; Full load:<120W	Standby:<10W; Full load:<240W
Working Voltage	48-57VDC; 5P industrial phoenix terminal, anti-reverse protection.	
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply	
<b>Physical Parameter</b>		
Operation TEMP / Humidity	-40~+80°C; 5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+85°C; 5%~95% RH Non condensing	
Dimension	170x148x52mm	

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Net /Gross Weight	<0.9Kg / <1.3Kg
Installation	Desktop, 35mm DIN rail
<b>Certification &amp; Warranty</b>	
Lightning Protection / Protection Level	Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable: ±4kV; data cable: ±2kV IEC61000-4-5(Surge): power cable:CM±4kV/DM±2kV; data cable: ±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation): 30A/m 1MHz IEC61000-4-12/18(shockwave): CM 2.5kV, DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022): Class A IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock), IEC60068-2-32 (free fall)
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS
Warranty	5 years, lifelong maintenance

### DIMENSION



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## APPLICATION

### 1. Network topology



### 2. Product overview



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