INDUSTRIAL SWITCH PRODUCTS

L2 Unmanaged industrial PoE fiber switch with 8x10/100/1000M RJ45 ports and 2x1000M SFP

FOCOMM

PRODUCT DESCRIPTION

The **IPS-8GT-2SFP** series is a full gigabit industrial PoE switch fiber independently developed by Focomm. It has 8*10/100/1000 Base-T RJ45 ports and 2*1000Base-x SFP ports. Port 1-8 can support IEEE 802.3af/at PoE standard, single-port PoE power up to 30W, and the maximum PoE output power of the host is 120W (at-240W). As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard 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. Unmanaged mode, plug, and play, no configuration, easy to use.

FEATURE

Full gigabit access, SFP port uplink

- All series supports " Gigabit RJ45 port and gigabit SFP port "
  combination, which enables users to flexibly build networking to
  meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

Powerful 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
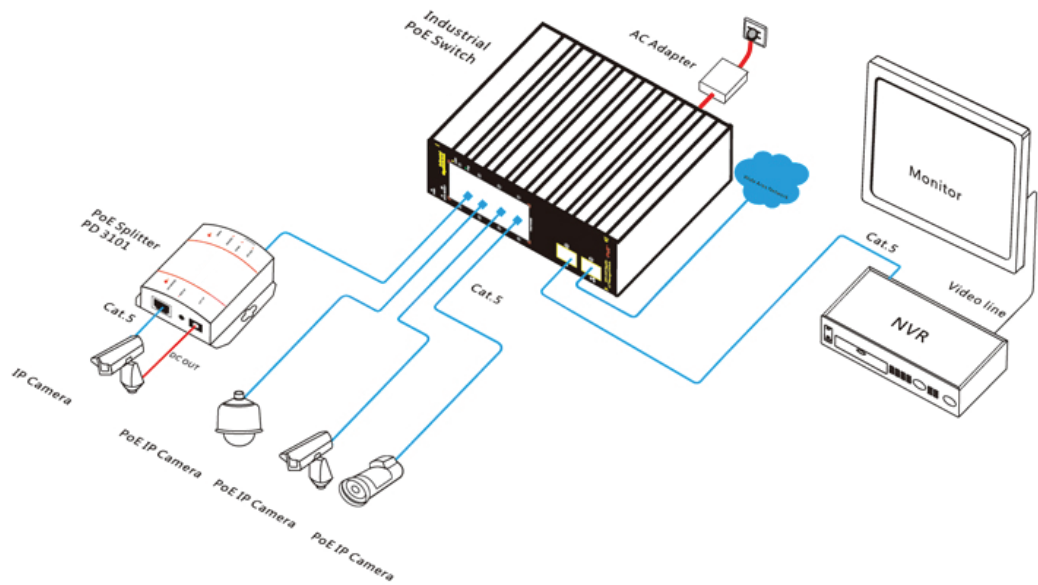- DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V

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 standard, 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, aluminum casing.
- CCC,CE, FCC, RoHS.
- The user-friendly panel, it can show the device status through the LED indicator of PWR,Link, PoE.

ISO 9001　ISO 14001　OHSAS 18001　UL

TECHNICAL SPECIFICATION

Interface Characteristics	
Fixed Port	8*10/100/1000Base-T PoE ports (Data/Power)
	2*1000Base-X uplink SFP fiber slot ports (Data)
	2 sets of V+, V- redundant DC power interface (5P Phoenix terminal)
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)
Ethernet Port	Port 1-8 support 10/100/1000Base-T(X) auto-sensing, full/half duplex MDI/MDI-X self-adaption
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/ Distance	Multi mode: 850nm 0~500M; 1310nm 0~2kM; single mode: 1310nm 0~40KM,1550nm 0-120KM.
Chip Parameter	
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	20Gbps
Forwarding Rate@64byte	14.88Mpps
MAC	8K
Buffer Memory	4M
Forwarding delay	<10us
Jumbo Frame	9.2K
LED Indicator	Powe: PWR (green), Network: Link,link/Act (yellow), PoE: PoE (green)

PoE & Power	
PoE Port	Port 1-8
Power Supply Pin	Default 1/2 (+), 3/6 (-)
Max Power Per Port	30W; IEEE802.3af/at
Total PWR / Input Voltage	120W/48VDC
Power Consumption	Standby:<8W;Full load:<120W
Working Voltage	48-57VDC; 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply
Physical Parameter	
Operation TEMP / Humidity	-40~+75°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing
Dimension (L*W*H)	145*134.5*47.5mm
Net /Gross Weight	<1.0kg / <1.3kg
Installation	Desktop, DIN rail
Certification & Warranty	
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	3 years

ORDER INFOMATION

PRODUCT	PART NUMBER
Unmanaged industrial PoE fiber switch 8*10/100/1000M RJ45 ports and 2*1000M SFP ports	IPS-8GT-2SFP