# INDUSTRIAL SWITCH PRODUCTS
**L2 Unmanaged industrial PoE  fiber switch with 10x10/100/1000M RJ45 ports and 2x1000M SFP**

FOCOMM

## PRODUCT DESCRIPTION

The **IPS-10GT-2SFP** series is a full gigabit industrial PoE fiber switch independently developed by Focomm. It has 10*10/100/1000 Base-T RJ45 ports and 2*1000Base-X uplink SFP slot ports. Port 1-8 can support IEEE 802.3af/at PoE standard, single-port PoE power up to 30W. 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

**Gigabit Ethernet port access, uplink gigabit dual SFP port**

 - Uplink gigabit dual SFP fiber ports, easy to achieve high bandwidth and long-distance transmission.

 - Dual SFP fiber ports can cascade, chain, compatible with SFP module connection.

**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 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.

ISO 9001  ISO 14001  OHSAS 18001  UL

## TECHNICAL SPECIFICATION

| Interface Characteristics | |
|---|---|
| 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 | Multimode: 850nm 0 ~ 550M, |
| | singlemode: 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 | 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) |
| **PoE & Power** | |
| 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 |
| Power Consumption | Standby:<8W;Full load:<120W |
| Working Voltage | 48-57VDC; 5P industrial phoenix terminal, anti-reverse protection. |
| Power Supply | No, optional 48V/120W or 48V/240W industrial power supply |
| **Physical Parameter** | |
| Operation TEMP / Humidity | -40~+80°C;5%~90% RH Non condensing |
| Storage TEMP / Humidity | -40~+85°C;5%~95% RH Non condensing |
| Dimension | 165*148*54mm |
| Net /Gross Weight | <1.0kg / <1.3kg |
| Installation | Desktop, 35mm 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 |
|---|---|
| L2 Unmanaged industrial PoE  fiber switch with 10x10/100/1000M RJ45 ports and 2x1000M SFP | IPS-10GT-2SFP |