

## IFS-802GS-8PH

**8x FE RJ45 + 2x 1000Base-X SFP with 8x PoE 240W, 48VDC**

- » 4KV Surge Protection for PoE UTP and PoE Ports
- » Wide Operating Temperature -40 ~ 75°C
- » IP30 Rugged Metal Housing and Fanless
- » EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



The industrial 8-port PoE Ethernet switch, unmanaged plug-and-play easy for use, has 8 10/100Mbps UTP ports and each port supports 30W PoE+. Equipped with two Gigabit SFP slots for fiber optic connections to meet the requirements for extended transmission distance, fanless design, high MTBF, supports wide operating temperature, redundant 48VDC power input, suitable for heavy-duty applications in harsh environments, such as industrial factory automations, data centers, intelligent transportation systems, military and utility market applications where environmental conditions exceed commercial product specifications.

### Features

- Provides 8-port IEEE 802.3at/af PoE output (30W/port )
- Maximum PoE output power budget 240W
- 48VDC (44~57VDC) redundant dual power input
- Supports power failure alarm message by relay
- Supports flow control
- DIN Rail mounting or wall mounting

### Specifications

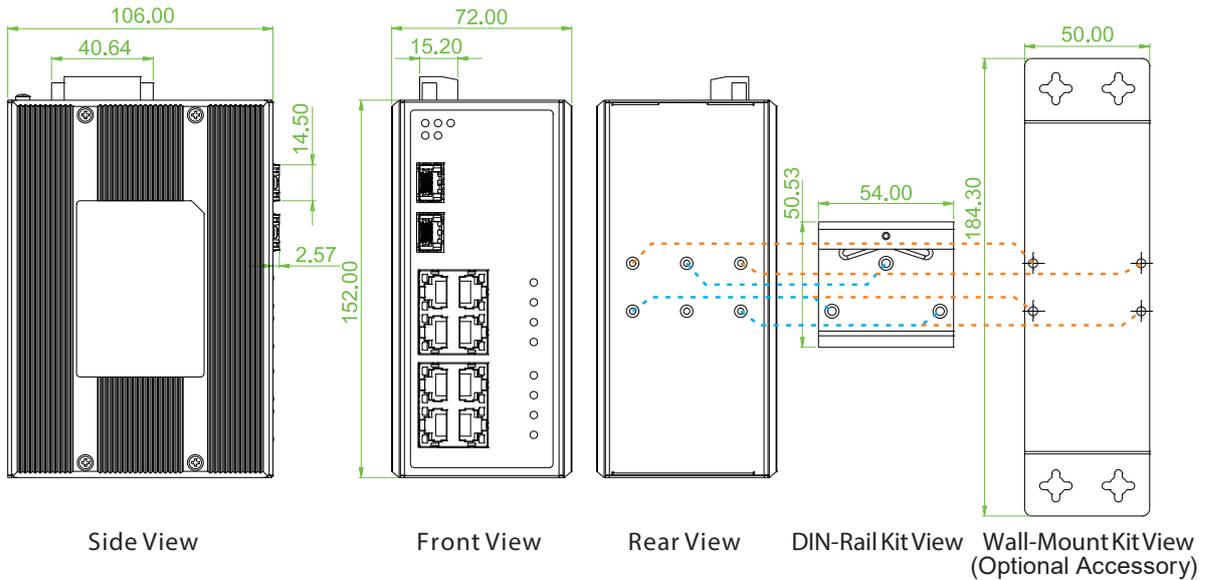
<b>Standard</b>	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.3z	1000Base-X Gigabit Ethernet over fiber optical
	IEEE 802.3x	Flow Control and Back Pressure
	IEEE 802.3af	PoE (Power over Ethernet)
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)
	<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 5.6Gbps (Full Wire-Speed)
<b>Data Processing</b>	Store and Forward	
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control	
<b>MAC Address Table</b>	8K	
<b>Packet Buffer Size</b>	1Mbits	
<b>Max Frame Size</b>	1632 Bytes	
<b>PoE Standard</b>	IEEE 802.3at/af	
<b>PoE RJ-45 Pin Assignment</b>	RJ-45 port #1~# 8 support IEEE 802.3at/af End-Span, Alternative A mode	
	Positive (V+): RJ-45 pin 1, 2.	
	Negative (V-): RJ-45 pin 3, 6. Data (1, 2, 3, 6 )	
<b>Network Connector</b>	8x RJ-45 for 10/100Base-TX, Auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex 2x 1000Base-X SFP	

# Industrial FE PoE Switch

<b>Network Cable</b>	UTP/STP Cat. 5e cable or above EIA/TIA-568 100-ohm (100meter) Fiber Cable (Multi-mode): 50/125um, 62.5/125um / Fiber Cable (Single-mode): 9/125um										
<b>Protocols</b>	CSMA/CD										
<b>LED</b>	System: Power 1 (Green), Power 2 (Green), Fault (Amber) UTP: 10 Link/Active (Green), 100 Link/Active (Yellow) SFP Slot: Link/Active (Green) PoE: ON (Green)										
<b>DIP SW</b>	DIP 1	Power failure alarm OFF : Enable ON : Disable									
<b>Reverse Polarity Protection</b>	Supported for Power Input										
<b>Overload Current Protection</b>	Supported										
<b>Power Supply</b>	Redundant dual 48VDC (44~57VDC) input power (Removable terminal block) (50~57V input is recommended for IEEE802.3at in 30W applications)										
<b>Power Consumption</b>	<table border="1"> <thead> <tr> <th>Input Voltage</th> <th>Total Power Consumption</th> <th>Device Power Consumption</th> <th>PoE Budget</th> </tr> </thead> <tbody> <tr> <td>50 VDC</td> <td>251W</td> <td>5.2W</td> <td>240W</td> </tr> </tbody> </table>	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	50 VDC	251W	5.2W	240W		
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50 VDC	251W	5.2W	240W								
<b>PoE Power Budget</b>	Maximum PoE Output power budget 240W (30W/port)										
<b>Alarm Relay Contact</b>	Relay outputs with current carrying capacity of 1A @24VDC										
<b>Removable Terminal Block</b>	Provides 2 Redundant power, Alarm relay contact, 6 Pin										
<b>Operating Temperature</b>	-10 ~ 60°C (IFS-802GS-8PH) -40 ~ 75°C (IFS-802GS-8PHE)										
<b>Operating Humidity</b>	5% to 95% (Non-condensing)										
<b>Storage Temperature</b>	-40 ~ 85°C										
<b>Housing</b>	Rugged metal, IP30 Protection and fanless										
<b>Dimensions</b>	106 x 72 x 152mm (D x W x H)										
<b>Weight</b>	765g										
<b>Installation Mounting</b>	DIN Rail mounting or wall mounting (Optional)										
<b>MTBF</b>	635,446Hours (MIL-HDBK-217)										
<b>Warranty</b>	5 years										
<b>Certification</b>											
<b>EMC</b>	CE										
<b>EMI (Electromagnetic Interference)</b>	FCC Part 15 Subpart B Class A, CE										
<b>EMS (Electromagnetic Susceptibility) Protection Level</b>	EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (Burst) Level 3, Criteria A EN61000-4-5 (Surge) Level 3, Criteria B EN61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A										
<b>Railway Traffic</b>	EN50121-4										
<b>Immunity for Heavy Industrial Environment</b>	EN61000-6-2										
<b>Emission for Heavy Industrial Environment</b>	EN61000-6-4										
<b>4KV Surge Protection</b>	Supported for PoE, UTP and SFP port										
<b>Shock</b>	IEC 60068-2-27										
<b>Freefall</b>	IEC 60068-2-32										
<b>Vibration</b>	IEC 60068-2-6										

# Industrial FE PoE Switch

## Dimensions



## Ordering Information

Model Name	Total Port	RJ45		SFP		PoE		Input Power		Certification			Operating Temperature
		10/100 Base-TX	1000 Base-X	IEEE802.3 at/af	Power Budget	Redundant	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC				
IFS-802GS-8PH	10	8	2	8	240W	48VDC	V	V	V	-10~60°C			
IFS-802GS-8PHE	10	8	2	8	240W	48VDC	V	V	V	-40~75°C			

## Optional Accessories

### Wall Mount Kit

IND-WMK02 Wall Mount kit for Industrial product (Wide) (184\*50mm)

### Industrial SFP Transceiver

The ISFP series of industrial grade SFP modules have been fully tested with all CTC Union industrial grade Ethernet switches for guaranteed compatibility and performance. Best performance can be guaranteed, even in mission-critical applications. (Please see CTC Union's Industrial SFP datasheets for more items and detailed information.)

ISFP-M7000-85-D(E)	Industrial SFP GbE 1000Base-SX, M/M, 500 meter, wave length 850nm, 7.5dB, LC, DDML, -10~70°C (-40~85°C)
ISFP-S7020-31-D(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, DDML, -10~70°C (-40~85°C)
ISFP-T7T00-00-(E)	Industrial SFP 10/100/1000Base-T UTP 100meter, -10~70°C (-40~85°C)

### Industrial Power Supply

NDR-240-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 240W, -20 ~ 70°C
NDR-480-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 480W, -20 ~ 70°C