



**NEW**



## IFS-802GS-8PH

8x 10/100Base-TX+ 2x 1000Base-X SFP Slot with 8x PoE+ Switch (240 Watts)

The IFS-802GS-8PH is 10 Port unmanaged industrial grade Ethernet PoE switches with 8x 10/100Base-TX PoE that provide stable and reliable Ethernet transmission. Housed in rugged DIN rail or wall mountable enclosures, these switches are designed for harsh environments, such as industrial networking, security automation applications, IP Surveillance, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications. Standard operating temperature range models (-10 to 60°C) and wide operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

### Features

- 8x 10/100Base-TX UTP and 2x1000Base-X SFP
- Provides 8-port IEEE802.3at/af PoE output (30W/Per Port )
- Maximum PoE output power budget 240W
- 48VDC (44~57VDC) redundant dual input power
- Wide operating temperature -40 ~ 75°C ("E" model )
- Supports power failure alarm message by relay
- Supports flow control
- IP30 rugged metal housing and fanless
- DIN Rail mounting or wall mounting
- CE, FCC, railway EN50121-4 certification
- Industrial grade EMS, EMI, EN61000-6-2, EN61000-6-4 certification

### Specifications

<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3z 1000Base-X Gigabit Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.3at PoE+ (Power over Ethernet enhancements) IEEE802.3af PoE (Power over Ethernet)
<b>Switch Architecture</b>	Back-plane (Switching Fabric): 5.6Gbps
<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
<b>Network Cable</b>	UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m) Fiber Cable (Multi-mode): 50/125um, 62.5/125um Fiber Cable (Single-mode): 9/125um
<b>Protocols</b>	CSMA/CD
<b>LED</b>	Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber) Per RJ-45 port : Link/Active (Green) Speed 100 (Yellow) Fiber Per port: Link/Active (Green) Per PoE Port LED : • Active : ON • Inactive : OFF
<b>DIP SW</b>	DIP 1 ON : Disable power failure alarm OFF : Enable power failure alarm
<b>Reserve Polarity Protection</b>	Present

<b>Overload Current Protection</b>	Present								
<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 Power Budget</th> </tr> </thead> <tbody> <tr> <td>48 VDC</td> <td>251W</td> <td>5.2W</td> <td>240W</td> </tr> </tbody> </table>	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Power Budget	48 VDC	251W	5.2W	240W
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48 VDC	251W	5.2W	240W						
<b>PoE Power Budget</b>	Maximum PoE Output power budget 240W (30W/Per 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 152 mm (D X W X H)								
<b>Weight</b>	765g								
<b>Installation Mounting</b>	DIN Rail mounting or wall mounting								
<b>MTBF</b>	400,469Hours (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 EN55022 Class 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								

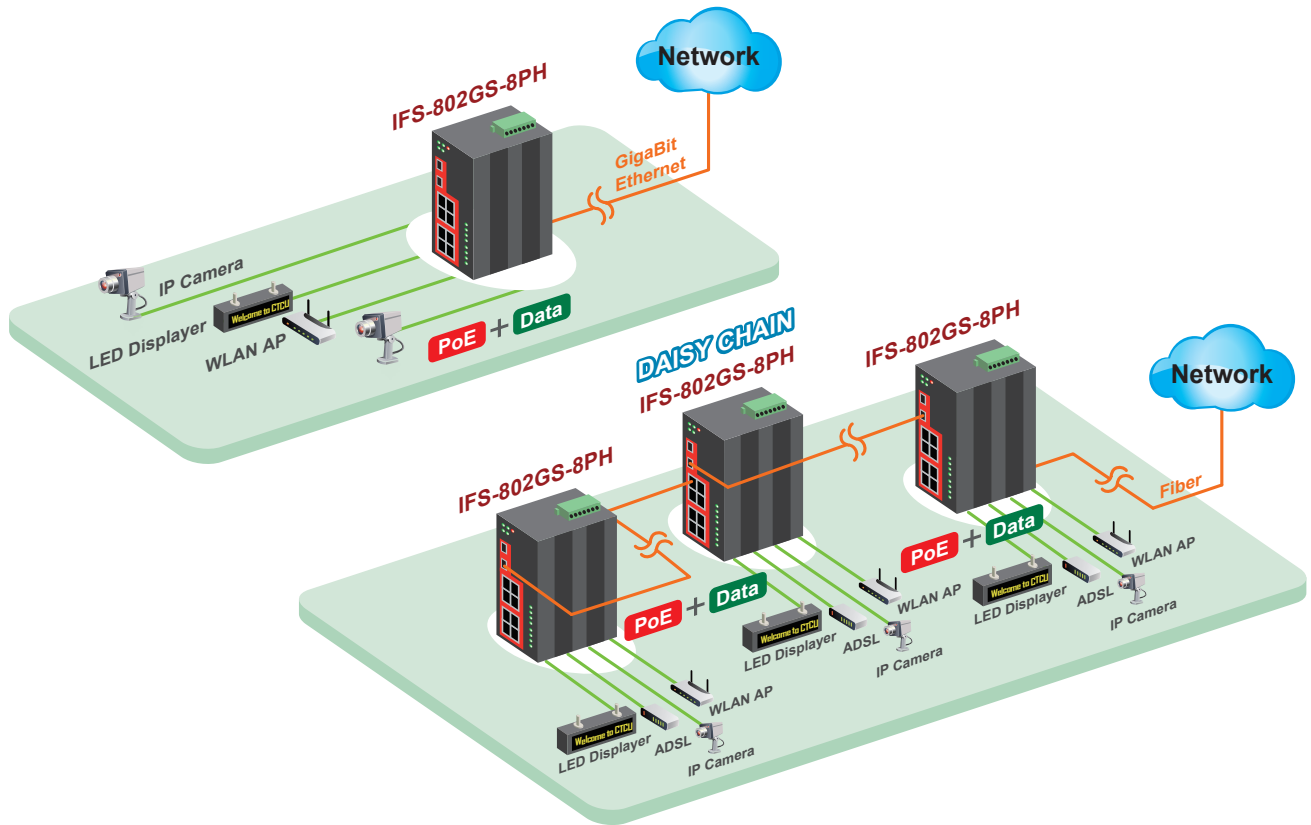
# Industrial Unmanaged FE PoE Switch

<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

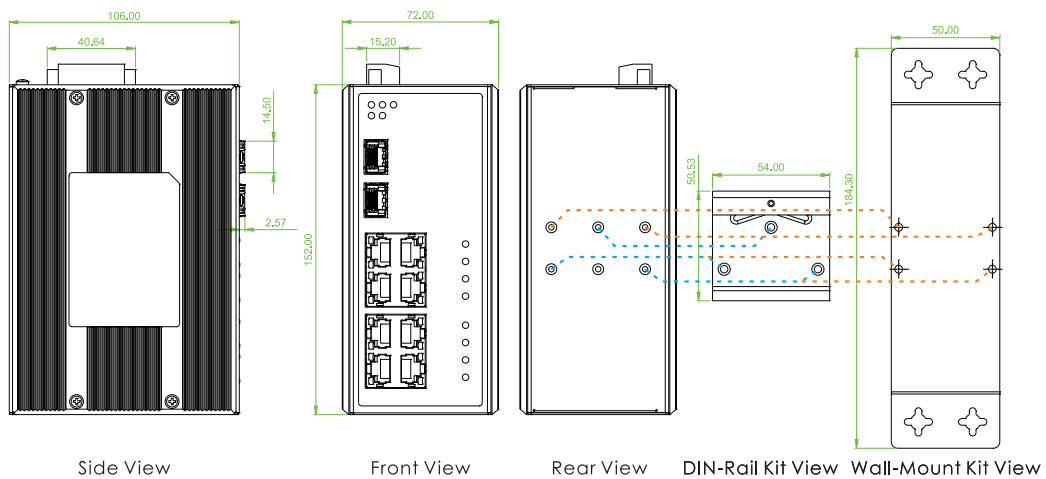
<b>Safety</b>	UL60950-1 (Pending)
<b>Shock</b>	IEC 60068-2-27
<b>Freefall</b>	IEC 60068-2-32
<b>Vibration</b>	IEC 60068-2-6

## Application

► **Figure : IFS-802GS-8PH PoE Gigabit Ethernet Switch Transmission**



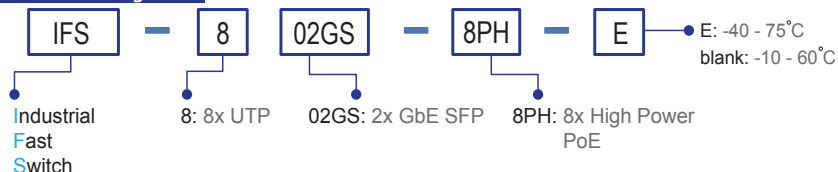
## Dimensions



## Ordering Information

Model Name	Port	UTP Port	Fiber Port	PoE Port	Certification				Operating Temperature
		10/100 Base-T(X)	1000Base-X	IEEE802.3at	Railway EN50121-4	EN61000-6-2 EN61000-6-4	CE	FCC	
IFS-802GS-8PH	10	8	2 SFP	8	V	V	V	V	-10~60 C
IFS-802GS-8PHE	10	8	2 SFP	8	V	V	V	V	-40~75 C

### Model Naming Rule



## Optional Accessories

### Industrial Power Supply

**DRP-240-48** Industrial Power, Input 85 ~ 264VAC, Output 48VDC, 240W, -10 ~ +70°C

### Industrial SFP Transceiver

(The ISFP series of industrial grade SFP modules have been fully tested with IFS-802GS-8PH for guaranteed compatibility and performance. The best performance can be guaranteed even in mission-critical applications.)  
(Please see CTC Union's Industrial SFP datasheet for more details and more items.)

**ISFP-M7000-85-(E)** Industrial SFP GbE 1000Base-SX, M/M, 500 meter, wave length 850nm, 7.5dB, LC, -10~70°C (-40~85°C)

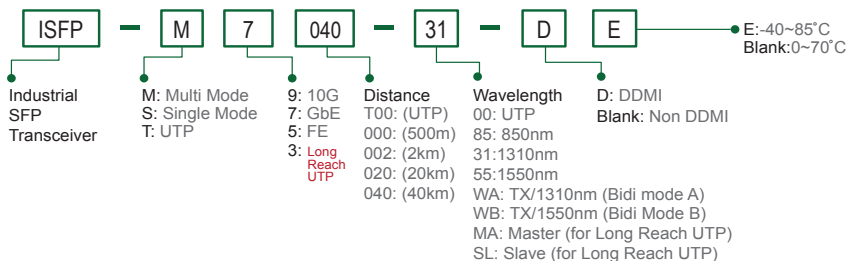
**ISFP-S7020-31-(E)** Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, -10~70°C (-40~85°C)

**ISFP-T7T00-00-(E)** Industrial SFP 1000Base-T UTP 100meter, -10~70°C (-40~85°C)

**ISFP-T3T00-MA-(E)** Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter), Master, -10~70°C (-40~85°C)

**ISFP-T3T00-SL-(E)** Industrial SFP 100Mbps, long reach UTP (2 wire) (500meter), Slave, -10~70°C (-40~85°C)

### SFP Naming Rule



## Package List

- IFS-802GS-8PH device
- Protective caps for SFP ports
- Quickly installation guide
- Din Rail with screws
- Wall mount bracket with screws
- Terminal block