

## IGS-802CS-8PH

8x GbE RJ45 + 2x 100/1000Base-X SFP with 8x PoE 240W, 48VDC

NEW



- ◆ 4KV Surge Protection for PoE UTP and PoE Ports
- ◆ Wide Operating Temperature -20 ~ 75°C
- ◆ IP30 Rugged Metal Housing and Fanless



The industrial 8-port PoE Ethernet switch, unmanaged plug-and-play easy for use, has 8 10/100/1000Mbps UTP ports and each port supports 30W PoE+. Equipped with two 100/1000Mbps 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 flow control
- DIN Rail mounting or wall mounting

### Specifications

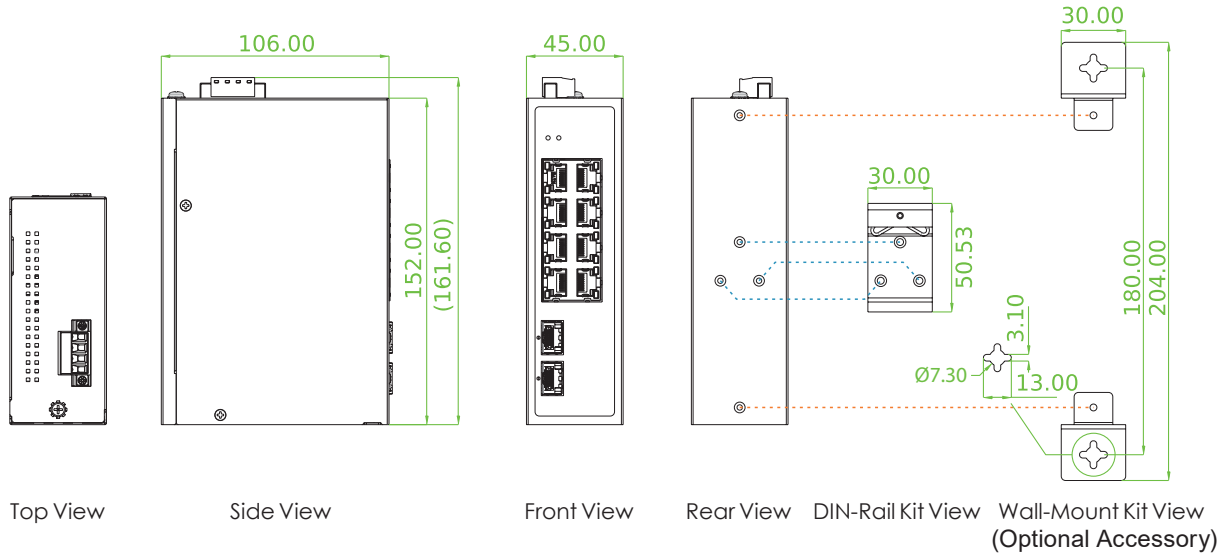
<b>Standard</b>	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX, 100Base-FX Fast Ethernet
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair
	IEEE 802.3z	1000Base-X Gigabit Ethernet over fiber optical
	IEEE 802.3x	Flow Control and Back Pressure
	IEEE 802.3af	PoE (Power over Ethernet)
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)
<b>Switch Architecture</b>	Back-Plane (Switching Fabric): 20Gbps (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>	4K	
<b>Jumbo Frame</b>	9KB	
<b>PoE Standard</b>	IEEE 802.3at/af	

# Industrial GbE PoE Switch



<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, 4, 5, 7, 8)			
<b>Network Connector</b>	8 x RJ-45, 10/100/1000Base-T(X), Auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex 2x 100/1000Base-X SFP, 100M or 1000M Auto detect			
<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) UTP: 10/100Link/Active (Green), 1000Link/Active (Amber) SFP Slot: 100Link/Active (Green), 1000Link/Active (Amber) PoE: ON (Green)			
<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>	<b>Input Voltage</b>	<b>Total Power Consumption</b>	<b>Device Power Consumption</b>	<b>PoE Budget</b>
	52 VDC	246.8W	6.8W	240W
<b>PoE Power Budget</b>	Maximum PoE Output power budget 240W (30W/port)			
<b>Removable Terminal Block</b>	Provides 2 Redundant power, 4 Pin			
<b>Operating Temperature</b>	-10 ~ 60°C (IGS-802CS-8PH) -20 ~ 75°C (IGS-802CS-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 45 x 152mm (D x W x H)			
<b>Weight</b>	645g			
<b>Installation Mounting</b>	DIN Rail mounting or wall mounting (Optional)			
<b>MTBF</b>	678,010 Hours (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>4KV Surge Protection</b>	Supported for PoE, UTP and SFP port			
<b>Shock</b>	IEC 60068-2-27			
<b>Freefall</b>	IEC 60068-2-31			
<b>Vibration</b>	IEC 60068-2-6			

## Dimensions



## Ordering Information

Model Name	Total Port	RJ45		SFP		PoE		Input Power		Certification		Operating Temperature
		10/100/1000 Base-T(X)	100/1000 Base-X	IEEE802.3 at/af	Power Budget	Redundant	CE	FCC				
IGS-802CS-8PH	10	8	2	8	240W	48VDC	V	V	-10~60°C			
IGS-802CS-8PHE	10	8	2	8	240W	48VDC	V	V	-20~75°C			

## Optional Accessories

### ■ Wall Mount Kit

IND-WMK06	Wall Mount kit for Industrial product (2pcs in 1 set, 41x30mm)
-----------	--

### ■ 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, DDMI, -10~70°C (-40~85°C)
ISFP-S7020-31-D(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-T7T00-00-(E)	Industrial SFP 10/100/1000Base-T UTP 100meter, -10~70°C (-40~85°C)
ISFP-M5002-31-D(E)	Industrial SFP 155M 100Base-FX, MM, 2km, wave length 1310nm, 12dB, LC, DDMI, -10~70°C (-40~85°C)
ISFP-S5030-31-D(E)	Industrial SFP 155M 100Base-FX, SM, 30km, 1310nm, 19dB, LC, DDMI, -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