

Industrial GbE PoE Switch

IGS-802CS-8PH

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

- ◆ 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

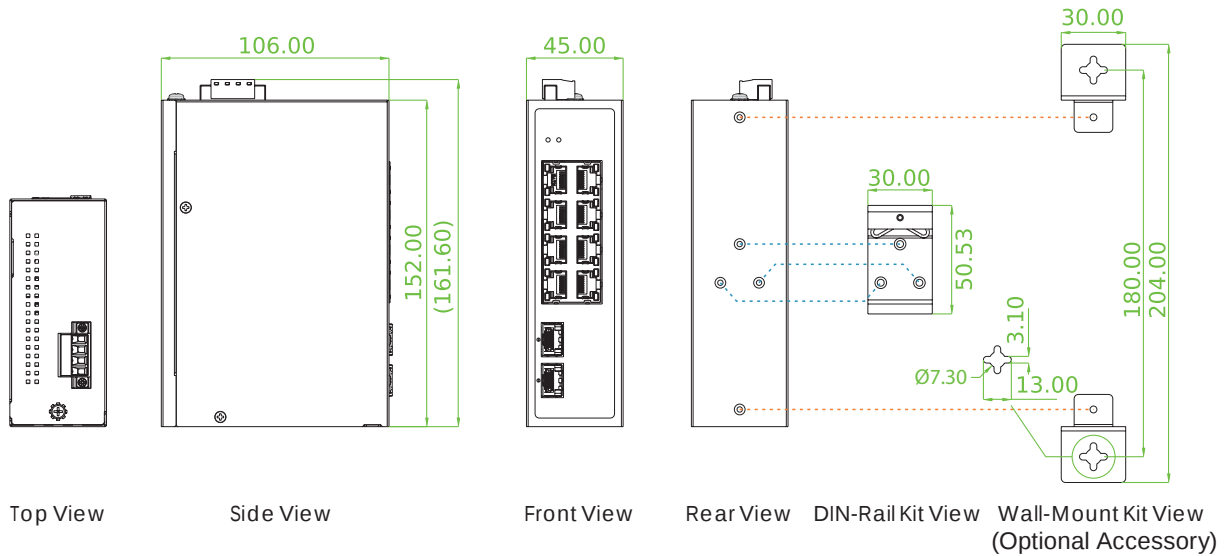
- Provides 8-port IEEE 802.3at/af PoE output (30W/port)
- Maximum PoE output power budget 240W
- 48VDC (44~57VDC) redundant dual power input
- Supports flow control
- DIN Rail mounting or wall mounting

Specifications

Standard	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)
	IEEE 802.3	10Base-T Ethernet
Switch Architecture	Back-Plane (Switching Fabric): 20Gbps (Full Wire-Speed)	
Data Processing	Store and Forward	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
MAC Address Table	4K	
Jumbo Frame	9KB	
PoE Standard	IEEE 802.3at/af	

PoE RJ-45 Pin Assignment	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)											
Network Connector	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											
Network Cable	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											
Protocols	CSMA/CD											
LED	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)											
Reverse Polarity Protection	Supported for Power Input											
Overload Current Protection	Supported											
Power Supply	Redundant dual 48VDC (44~57VDC) input power (Removable terminal block) (50~57V input is recommended for IEEE802.3at in 30W applications)											
Power Consumption	<table><tr><th>Input Voltage</th><th>Total Power Consumption</th><th>Device Power Consumption</th><th>PoE Budget</th></tr><tr><td>52 VDC</td><td>246.8W</td><td>6.8W</td><td>240W</td></tr></table>				Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget	52 VDC	246.8W	6.8W	240W
	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget								
52 VDC	246.8W	6.8W	240W									
PoE Power Budget	Maximum PoE Output power budget 240W (30W/port)											
Removable Terminal Block	Provides 2 Redundant power, 4 Pin											
Operating Temperature	-10 ~ 60°C (IGS-802CS-8PH)											
	-20 ~ 75°C (IGS-802CS-8PHE)											
Operating Humidity	5% to 95% (Non-condensing)											
Storage Temperature	-40 ~ 85°C											
Housing	Rugged metal, IP30 Protection and fanless											
Dimensions	106 x 45 x 152mm (D x W x H)											
Weight	645g											
Installation Mounting	DIN Rail mounting or wall mounting (Optional)											
MTBF	678,010 Hours (MIL-HDBK-217)											
Certification												
EMC	CE											
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE											
EMS (Electromagnetic Susceptibility) Protection Level	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											
4KV Surge Protection	Supported for PoE, UTP and SFP port											
Shock	IEC 60068-2-27											
Freefall	IEC 60068-2-31											
Vibration	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)
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■ 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)
ISFP-M5002-31-D(E)	Industrial SFP 155M 100Base-FX, MM, 2km, wave length 1310nm, 12dB, LC, DDML, -10~70°C (-40~85°C)
ISFP-S5030-31-D(E)	Industrial SFP 155M 100Base-FX, SM, 30km, 1310nm, 19dB, LC, DDML, -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