

IGS-800C-8PH

Industrial GbE PoE Switch

8x GbE RJ45 with 8x PoE, Compact size 240W, 48VDC

- » 48VDC (44~57VDC) Redundant Dual Power Input
- » IP30, Rugged Metal Housing, Fanless
- » 4KV Surge Protection for RJ45 and PoE Ports
- » EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



The industrial compact size PoE switch IGS-800C-8PH has 8 Gigabit UTP ports and each port supports 30W PoE+. 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 per port, total 240W)
- 48VDC (44~57VDC) redundant dual power input
- Supports flow control
- Jumbo frame supported
- Supports DIN Rail or wall mounting installation
- Wide operating temperature -40 ~ 70°C ("E" model)

Specifications

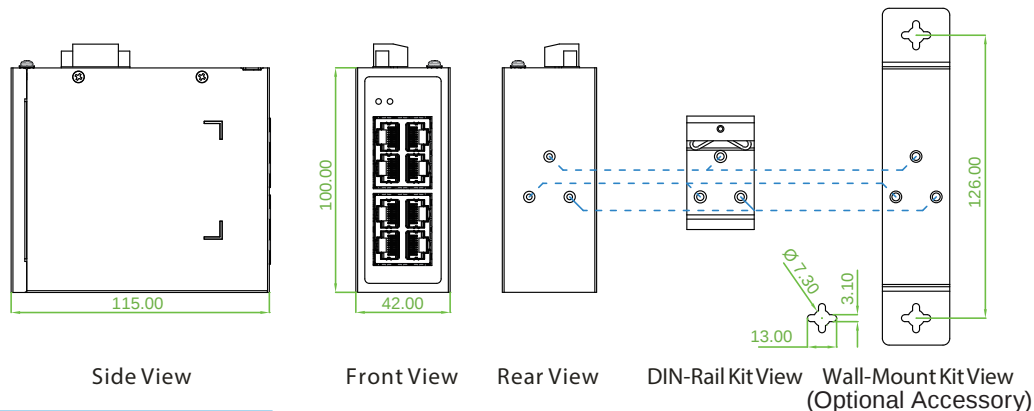
Standard	IEEE 802.3	10Base-T Ethernet		
	IEEE 802.3u	100Base-TX Fast Ethernet		
	IEEE 802.3ab	1000Base-T Gigabit Ethernet		
	IEEE 802.3x	Flow Control and Back Pressure		
	IEEE 802.3at	PoE+ (Power over Ethernet enhancements)		
	IEEE 802.3af	PoE (Power over Ethernet)		
Switch Architecture	Back-Plane (Switching Fabric): 16Gbps (Full Wire-Speed)			
Data Processing	Store and Forward			
Flow Control	IEEE 802.3x flow control, back pressure flow control			
Jumbo Frame	9K Bytes			
MAC Address Table	4K			
PoE standard & RJ-45 Pin Assignment	8x IEEE 802.3at/af PoE+ 2 pairs PoE, PoE+ 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	8x RJ-45 10/100/1000Base-T, Auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex			
Network Cable	UTP/STP Cat. 5e cable or above EIA/TIA-568 100-ohm (100meter)			
Protocols	CSMA/CD			
LED	System: Power 1 (Green), Power 2 (Green)			
	UTP: 10/100 Link/Active (Green), 1000 Link/Active (Amber)			
	PoE: ON (Green)			
Reverse Polarity Protection	Supported for Power Input			
Overload Current Protection	Supported			
Power Supply	Redundant Dual DC 48V (44~57VDC) input power (Removable terminal block) (50~57V input is recommended for IEEE 802.3at PoE+)			
Power Consumption	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Budget
	50 VDC	247.6W	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-800C-8PH) -40 ~ 70°C (IGS-800C-8PHE)
Operating Humidity	5% to 95% (Non-condensing)
Dimensions	100 x 42 x 115mm (D x W x H)
Housing	Rugged Metal, IP30 Protection, Fanless
Weight	0.95kg
Installation Mounting	DIN Rail mounting or wall mounting (Optional accessories)
MTBF	1,494,598 Hours (MIL-HDBK-217)

Certification

EMC	CE (EN55024, EN55032)
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE EN55022 Class A
Railway Traffic	EN50121-4
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
Surge Protection	4KV for PoE and UTP ports
Immunity for Heavy Industrial Environment	EN61000-6-2
Emission for Heavy Industrial Environment	EN61000-6-4
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Dimensions



Ordering Information

Model Name	Total Port	RJ45	PoE		Input Power		Certification			Operating Temperature
		10/100/1000 Base-T(X)	IEEE802.3 at/af	Power Budget	Redundant		Railway EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	
IGS-800C-8PH	8	8	8	240W	48VDC		V	V	V	-10~60°C
IGS-800C-8PHE	8	8	8	240W	48VDC		V	V	V	-40~70°C

Optional Accessories

■ Wall Mount Kit

IND-WMK03	Wall Mount kit for Industrial product (Compact, 150 x 30mm)
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■ 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