CTC union°

IGS-800C-8PH

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

- EN50121-4, CE, FCC certified
- 48VDC (44~57VDC) redundant dual input power
- IP30, rugged metal housing, fanless
- 4KV surge protection for RJ45 and PoE ports

CE FC EN50121-4

IGS-800C-8PH is an unmanaged, industrial grade, Gigabit PoE switch with 8x 10/100/1000Base-T PoE ports that provide stable and reliable Ethernet transmissions. 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 (See figure 1). Standard operating temperature range models (-10 to 60℃) and wide operating temperature range models (-40 to 70℃) fulfill the special needs of industrial automation applications.

Features

- Provides 8-port IEEE 802.3at/af PoE+ output, 30W/per port, total 240W
- 48VDC (44~57VDC) redundant dual input power
- Supports flow control
- Jumbo frame support
- Supports DIN Rail or wall mounting installation
- Wide operating temperature -40 ~ 70℃ ("E" model)

Specifications

IEEE 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 802.3af PoE (Power over Ethernet)
	IEEE 802.3at PoE+ (Power over Ethernet enhancements)
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	Per unit: Power 1 (Green), Power 2 (Green)
	Per port: 10/100 Link/Acttive (Green) 1000 Link/Active (Amber)
	Per Port PoE LED • Active : ON • Inactive : OFF
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
	50VDC	247.6W	6.8W	240W

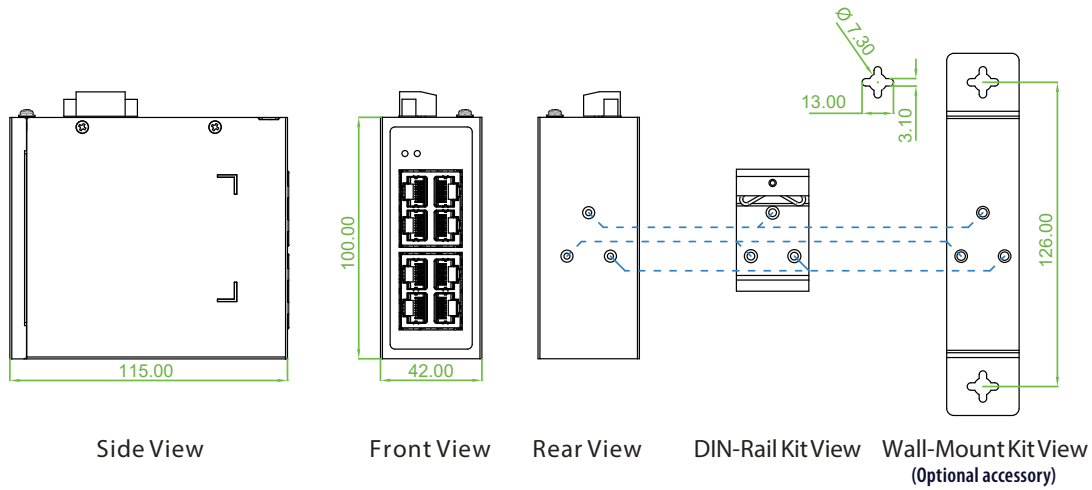| **PoE Power Budget**	Maximum PoE Output power budget 240W, 30W/per port
Removable Terminal Block	Provides 2 Redundant power, 4 pin
Operating Temperature	-10 ~ 60℃ (IGS-800C-8PH) -40 ~ 70℃ (IGS-800C-8PHE)
Operating Humidity	5% to 95% (Non-condensing)
Dimensions	100x 42x 115mm (D X W X H)
Housing	Rugged 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)
Warranty	5 years
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
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

Dimensions

| Side View | Front View | Rear View | DIN-Rail Kit View | Wall-Mount Kit View **(Optional accessory)** |

Ordering Information

| Model Name | Total Port | RJ45 UTP Port | PoE Port | | Input Power | Certification | | Operating Temperature |
		10/100/1000 Base-T(X)	IEEE 802.3at	Power Budget	Redundant	Railway EN50121-4	CE, FCC	
IGS-800C-8PH	8	8	8	240W	48VDC	V	V	-10~60℃
IGS-800C-8PHE	8	8	8	240W	48VDC	V	V	-40~70℃

■ Package List

- IGS-800C-8PH device
- Din Rail with screws
- Terminal block

Optional Accessories

■ Wall Mount Kit

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

■ Industrial Power Supply

| NDR-240-48 | Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 240W, -20 ~ +70℃   (For IGS-800C-8PH) |
| NDR-480-48 | Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 480W, -20 ~ +70℃   (For more ref.) |

7

Industrial Unmanaged GbE PoE Switch IGS-800C-8PH

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.   www.ctcu.com / sales@ctcu.com

7-45