IGS-800C

8x GbE RJ45, Low profile size

- EN50121-4, EN61000-6-2, EN61000-6-4, CE, FCC certified
- 12/24/48VDC (9.6~60VDC) redundant dual input power
- Low profile size, IP30, rugged metal housing, fanless

The IGS-800C is a low profile, 8 Ports unmanaged Gigabit Ethernet switche, that provides stable and reliable Ethernet transmission. Housed in rugged DIN rail or wall mountable enclosures, the switch is designed for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications (See Figure). 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.
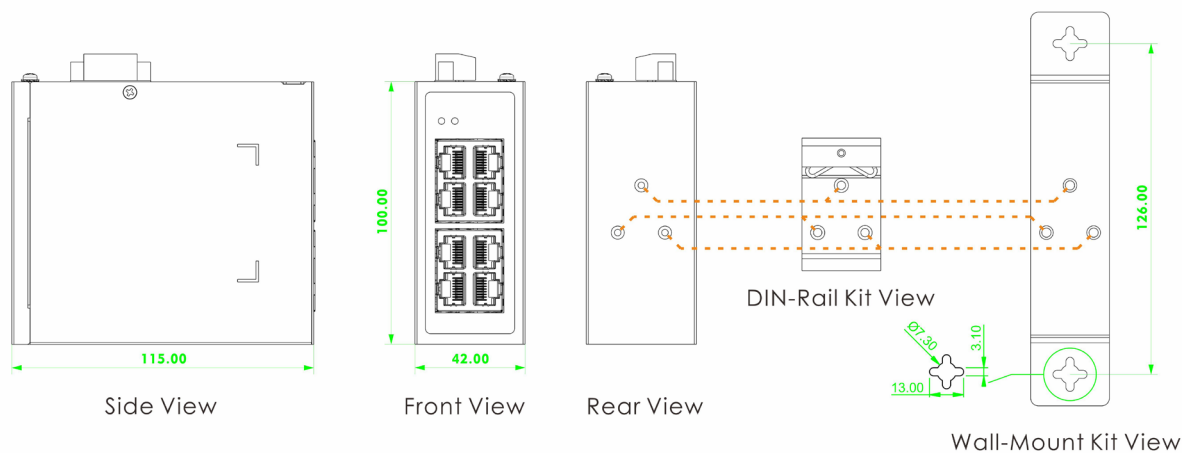
Features

- Supports flow control
- Jumbo frame support
- Supports auto-negotiation and auto-MDI/MDI-X
- 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, 100Base-FX, Fast Ethernet
	IEEE 802.3ab 1000Base-T Gbit/s Ethernet over twisted pair
	IEEE 802.3x Flow Control
	IEEE 802.3z 1000Base-X Gbit/s Ethernet over Fiber-Optic
Switch Architecture	Back-plane (Switching Fabric): 16 Gbps Full wire-speed
Data Processing	Store and Forward
Flow Control	IEEE 802.3x flow control for Full duplex , back pressure for half duplex
Jumbo Frame	9K Bytes
MAC Address Table	4K
Network Connector	8 x 10/100/1000Base-T RJ-45
	10/100/1000Base-TX auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex
Network Cable	10Base-T: 2-pair UTP/STP Cat. 5 cable
	EIA/TIA-568 100-ohm (100m)
	100Base-TX: 2-pair UTP/STP Cat. 5 cable
	EIA/TIA-568 100-ohm (100m)
Protocols	CSMA/CD
LED	Per unit: Power 1 (Green), Power 2 (Green)
	Per RJ45: Link/Act 1000 (Yellow), Link/Act 10/100 (Green)
Reverse Polarity Protection	Supported for Power Input
Overload Current Protection	Supported
Power Supply	Redundant Dual DC 12/24/48V (9.6~60VDC), Input power (Removable Terminal Block)

Power Consumption	Input	IGS-800C
	12VDC	3.9W
	24VDC	4.6W
	48VDC	6.8W

Removable Terminal Block	Provides 2 redundant power, 4 Pin

Operating Temperature	-10℃~60℃ (IGS-800C)
	-40℃~70℃ (IGS-800C-E)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85℃
Housing	Rugged Metal,IP30Protection and fanless
Dimensions	100 x 42x 115mm (D x W x H)
Weight	0.71kg
Installation Mounting	DIN Rail mounting, or wall mounting (Optional)
MTBF	2,442,195 Hours
Warranty	5 years
Certification	
EMC/EMS	CE (EN55024, EN55032)
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE
Railway Traffic	EN50121-4
Immunity for Heavy Industrial Environment	EN61000-6-2
Emission for Heavy Industrial Environment	EN61000-6-4
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
EMS (Electromagnetic Susceptibility) Protection Level	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
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

2021 V1.0

7-29

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

Dimensions

Side View — 115.00

Front View — 42.00, 100.00

Rear View

DIN-Rail Kit View

Wall-Mount Kit View — 126.00, Ø7.30, 3.10, 13.00

Ordering Information

Model Name	Total Port	RJ45 UTP port	Fiber Port	Power Input	Certification				Operating Temperature
		10/100/1000 Base-T	100/1000Base-X	Redundant	Railway EN50121-4	EN61000-6-2 EN61000-6-4	CE	FCC	
IGS-800C	8	8		12/24/48VDC	V	V	V	V	-10~60℃
IGS-800C-E	8	8		12/24/48VDC	V	V	V	V	-40~70℃

■ Package List

- IGS-800C 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

MDR-20-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 24W, -20 ~ +70℃
MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70℃

Industrial Unmanaged GbE Switch   IGS-800C