IGS-802CS

8x GbE RJ45 + 2x 100/1000M SFP

NEW

▲ **4KV surge protection for UTP ports**

▲ **Wide operating temperature -20 ~ 75° C**

▲ **IP30 rugged metal housing and fanless**

CE FC

The industrial 8-port Ethernet switch, unmanaged plug-and-play easy for use, has 8 10/100/1000 UTP ports. Equipped with two 100/1000M 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

▪ 12/24/48VDC (9.6~60VDC) redundant dual input power

▪ Supports flow control
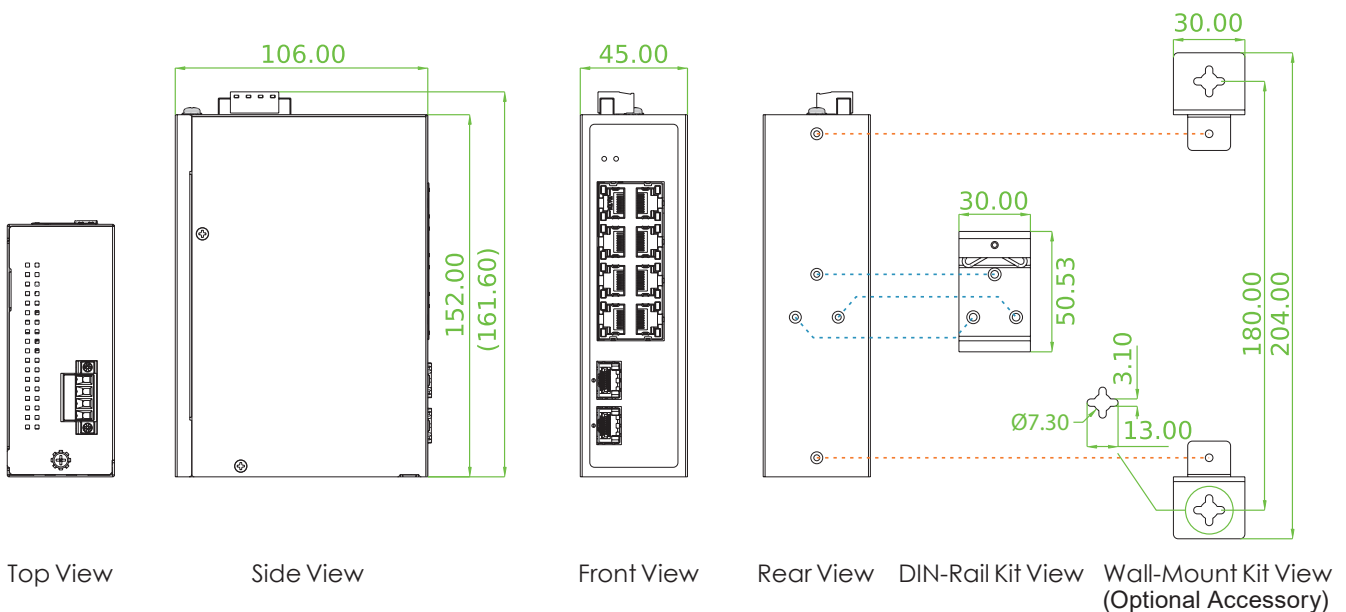
▪ DIN Rail mounting or wall mounting

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 Gbit/s Ethernet over Fiber-Optic
	IEEE 802.3z	1000Base-X Gigabit Ethernet over fiber optical
	IEEE 802.3x	Flow Control and Back Pressure
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	9K Bytes	
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)	
Reverse Polarity Protection	Supported for Power Input	

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Product specifications and design subject to change without notice. Visit our website for the most up-to-date product information.

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Overload Current Protection	Supported
Power Supply	Redundant dual 12/24/48VDC (9.6~60VDC) input power (Removable terminal block)
Power Consumption	TBD
Removable Terminal Block	Provides 2 Redundant power, 4 Pin
Operating Temperature	-10 ~ 60°C (IGS-802CS)
	-20 ~ 75°C (IGS-802CS-E)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged metal, IP30 Protection and fanless
Dimensions	TBD
Weight	TBD
Installation Mounting	DIN Rail mounting, or wall mounting (Optional)
MTBF	TBD (MIL-HDBK-217)
Warranty	5 years

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 UTP and SFP port
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6

Dimensions

Top View Side View Front View Rear View DIN-Rail Kit View Wall-Mount Kit View (Optional Accessory)

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Ordering Information

Model Name	Total Port	RJ45 UTP Port	Fiber Port	Input Power	Certification		Operating Temperature
		10/100/1000Base-T(X)	100/1000Base-X	Redundant	CE	FCC	
IGS-802CS	10	8	2 SFP	12/24/48VDC	V	V	-10~60°C
IGS-802CS-E	10	8	2 SFP	12/24/48VDC	V	V	-20~75°C

Optional Accessories

■ Wall Mount Kit

IND-WMK02	Wall Mount kit for Industrial product (Wide) (184 x 50mm)

■ 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)

■ Industrial Power Supply

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