IGS-501S

5x GbE RJ45 + 1x 100/1000Base SFP



- EN50121-4, EN61000-6-2, EN61000-6-4, CE, FCC certified
- Provides a DIP-Switch to set functions
- Supports power failure alarm message by relay
- 12/24/48VDC (9.6~60VDC) redundant dual input power
- IP30, rugged metal housing, fanless







These models is 5 port 10/100/1000Base-T unmanaged GbE switches. It includes a 1000Base-X SFP port, that provide stable and reliable Ethernet transmission. Housed in rugged DIN rail or wall mountable enclosures, these switches are designed for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are 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°C) and wide operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

Features

- Supports flow control
- Jumbo frame support
- Supports IEEE 802.3az Green Ethernet
- Supports auto-negotiation and auto-MDI/MDI-X
- Supports DIN Rail or wall mounting installation
- Wide operating temperature -40~75°C (-E model)

Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet				
	IEEE 802.3	Bu 100Base-TX, 100Base-FX, Fast Ethernet			
	IEEE 802.3 twisted p	Bab 1000Base-T Gbit/s Ethernet over air			
	IEEE 802.3	8x Flow Control			
	IEEE 802.3z 1000Base-X Gbit/s Ethernet over Fiber-Optic				
Switch Architecture	Back-plane (Switching Fabric): 12Gbps Full wire-speed				
Data Processing	Store and	Forward			
Flow Control	IEEE 802.3x flow control for Full duplex , back pressure for half duplex				
Provides Broadcast Storm Protection	Supported				
Jumbo Frame	9.6KBytes				
MAC Address Table	8K				
Packet Buffer Size	128K Byte				
Network Connector	r 5 x 10/100/1000Base-T RJ-45				
	1x 100/1000Base-X SFP connector				
	10/100/1000Base-TX auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex				
Network Cable	UTP/STP Cat. 5 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	Per unit: Power 1 (Green), Power 2 (Green), Fault (Amber)				
	Per RJ45: (Green)	Link/Act 1000 (Yellow), Link/Act 10/100 Fiber LED: Link/Act (Green)			
DIP SW	DIP 1	ON : Disable			
		OFF : Enable power failure alarm			
	DIP 2	ON: Disables broadcast storm protection			
		OFF: Enable broadcast storm protection			

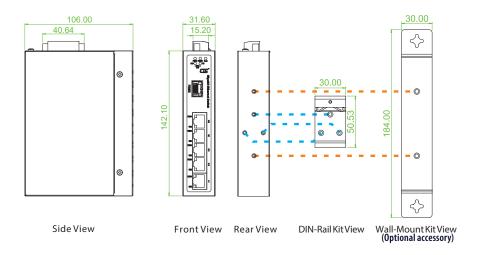
DIP SW		Green Ethernet				
	DIP 3	ON : Disable Green Ethernet				
		OFF: Enable 802.3az Green Eth				
	D.ID. 4	SFP speed				
	DIP 4	ON:100M O	FF : 1000M			
Reverse Polarity Protection	Supported for Power Input					
Overload Current Protection	Supported					
Power Supply		Redundant Dual DC 12/24/48V (9.6~60VDC), or AC 24V (18~36VAC) Input power (Removable Terminal Block)				
Power Consumption	1	Input	IGS-501S			
		12VDC	3.9W			
		24VDC	3.9W			
		48VDC	5.3W			
Alarm Relay Contact	: Relay ou @24VDC		t carrying capacity of 1 A			
Removable Terminal Block	Provides 2 redundant power, alarm relay contact, 6 Pin					
Operating	-10°C~60°C (IGS-501S)					
Temperature	-40°C~75°C (IGS-501S-E)					
Operating Humidity	5% to 95% (Non-condensing)					
Storage Temperature	-40 ~ 85	5°℃				
Housing	Rugged Metal,IP30Protection and fanless					
Dimensions	106 x 31.6 x 142 mm (D x W x H)					
Weight	0.415kg					
Installation Mounting	DIN Rail mounting, or wall mounting (Optional)					
	1,101,374 hrs (MIL-HDBK-217)					
MTBF						



Certification	
EMC/EMS	CE
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

Dimensions



Ordering Information

	Model Name Total Port	RJ45 UTP Port	Fiber Port	Power Input		Certificat	ion		- Operating
Model Name		10/100/1000 Base-T	100/1000Base-X	Redundant	Railway EN50121-4	EN61000-6-2 EN61000-6-4	CE	FCC	Temperature
IGS-501S	6	5	1x SFP	12/24/48VDC	V	V	V	V	-10~60°C
IGS-501S-E	6	5	1x SFP	12/24/48VDC	V	V	V	V	-40~75°C

■ Package List

- One device of the series
- Protective caps for SFP ports
- · Din Rail with screws
- · Terminal block

Optional Accessories

■ Wall Mount Kit

IND-WMK01 Wall Mount kit for Industrial product (184 x 30mm)

The ISFP series of industrial grade SFP modules have been fully tested with the IGS-501S product for guaranteed compatibility and performance. The best performance can be guaranteed even in mission-critical applications. (Please see CTC Union's Industrial SFP datasheet for more details and more items.)

ISFP-M7000-85-(E)	Industrial SFP GbE 1000Base-SX, M/M, 500 meter, wave length 850nm, 7.5dB, LC, -10~70°C (-40~85°C)
ISFP-S7020-31-(E)	Industrial SFP 1000Base-LX, S/M, 20km, wave length 1310nm, 15dB, LC, -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-(E)	Industrial SFP 155M 100Base-FX, MM, 2km, wave length 1310nm, 12dB, LC, -10~70°C (-40~85°C)
ISFP-S5030-31-(E)	Industrial SFP 155M 100Base-FX, SM, 30km, 1310nm, 19dB, LC, -10~70°C (-40~85°C)

■ Industrial Power Supply

MDR-20-24	Industrial Power, Input 85 \sim 264VAC/120 \sim 370VDC, Output 24VDC, 24W, -20 \sim +70 $^{\circ}$ C
MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70°C