10 IGS-500

CTC union

5x GbE RJ45

≫ *Provides a DIP-Switch to Set Functions*
≫ *Supports Power Failure Slarm Message by Relay*
≫ *12/24/48VDC (9.6~60VDC) Redundant Dual Power Input*
≫ *IP30, Rugged Metal Housing, Fanless*
≫ *EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified*

CE FC EN50121-4 EN61000-6-2 EN61000-6-4

The industrial unmanaged Gigabit Ethernet switch IGS-500 provides stable and reliable Ethernet transmission, features 5 ports Gigabit UTP. Housed in rugged enclosures, designed for harsh environments, fanless, high MTBF, supports wide operating temperature, and redundant 12/24/48VDC power input, it is suitable for heavy-duty applications 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.

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
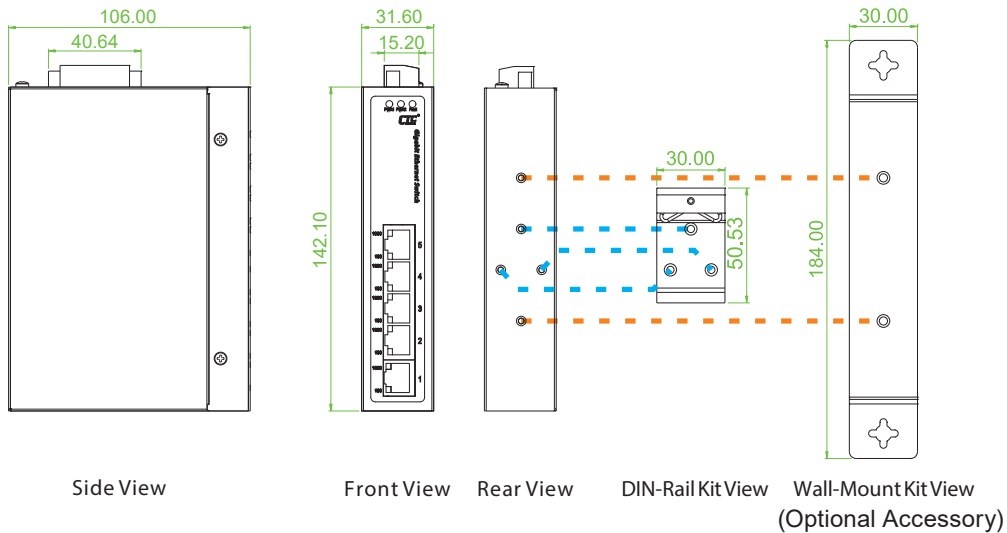- Wide operating temperature -40~75°C (-E model)

Specifications

Standard	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX and 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 802.3x	Flow Control
Switch Architecture	Back-Plane (Switching Fabric): 10Gbps (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	5 x 10/100/1000Base-T RJ-45	
	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)	

Industrial GbE Switch

Protocols	CSMA/CD		
LED	System: Power 1 (Green), Power 2 (Green), Fault (Amber)		
	UTP: 10/100 Link/Active (Green), 1000 Link/Active (Amber)		
	SFP Slot: Link/Active (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 3	Green Ethernet	
		ON : Disable Green Ethernet	
		OFF : Enable 802.3az Green Ethernet	
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	Input Voltage	Total Power Consumption
	12 VDC	3.3W
	24 VDC	3.4W
	48 VDC	4.8W

Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC, NC
Removable Terminal Block	Provides 2 redundant power, alarm relay contact, 6 Pin
Operating Temperature	-10 ~ 60°C (IGS-500)
	-40 ~ 75°C (IGS-500-E)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP30 Protection and fanless
Dimensions	106 x 31.6 x 142mm (D x W x H)
Weight	0.41kg
Installation Mounting	DIN Rail mounting or wall mounting (Optional)
MTBF	1,154,166hrs (MIL-HDBK-217)
Warranty	5 years

Certification

EMC/EMS	CE (EN55032, EN55035)
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
	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

10 Dimensions

106.00
40.64

142.10

31.60
15.20

30.00

30.00

50.53

184.00

Side View

Front View

Rear View

DIN-Rail Kit View

Wall-Mount Kit View
(Optional Accessory)

Ordering Information

Model Name	Total Port	RJ45	Power Input	Certification			Operating Temperature
		10/100/1000Base-T	Redundant	EN50121-4	EN61000-6-2 EN61000-6-4	CE, FCC	
IGS-500	5	5	12/24/48VDC	V	V	V	-10~60°C
IGS-500-E	5	5	12/24/48VDC	V	V	V	-40~75°C

Optional Accessories

■ Wall Mount Kit

IND-WMK01	Wall Mount kit for Industrial product (184x30mm) (Narrow)

■ 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