10 IGS-402F

CTC® union

4x GbE RJ45 + 2x 1000Base-X Fiber (ST/SC)

≫ *Provides a DIP-Switch to Set Functions*
≫ *Supports Power Failure Alarm by Relay*
≫ *12/24/48VDC (9.6~60VDC) Redundant Dual Power input*
≫ *IP30, Rugged Metal Housing, Fanless*
≫ *UL60950-1, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified*

UL60950-1 CE FC EN50121-4 EN61000-6-2 EN61000-6-4

Industrial unmanaged Ethernet switches provide stable and reliable Ethernet transmission. IGS-402F have 4 Gigabit UTP ports and are equipped 2 SC/ST connector type Gigabit optical fiber ports to meet extended transmission distance requirements. It adopts a rugged enclosure designed for harsh environments, is fanless, has high MTBF, and supports wide operating temperature, redundant 12/24/48VDC power input, and is suitable for industrial networks, intelligent transportation systems (ITS) and environmental applications, and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

Features

- Wide operating temperature -40 ~ 75°C ("-E" model)
- Supports flow control
- Supports jumbo frame

Specifications

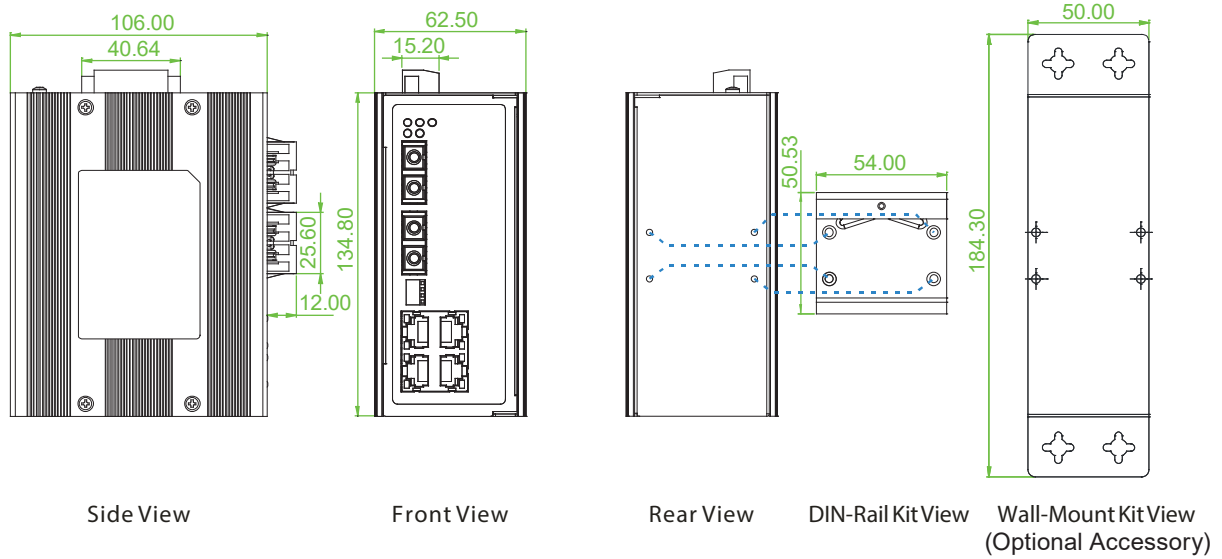|		
Standard	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX and 100Base-FX Fast Ethernet
	IEEE 802.3ab	1000Base-T Gbit/s Ethernet over twisted pair
	IEEE 802.3z	1000Base-X Gigabit Ethernet over fiber-optic
	IEEE 802.3x	Flow Control and Back Pressure
Switch Architecture	Back-Plane (Switching Fabric): 12Gbps (Full Wire-Speed)	
Data Processing	Store and Forward	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
Provides Broadcast Storm Protection	Present, Enable / Disable set by DIP SW	
Jumbo Frame	10K Bytes	
MAC Address Table	8K	
Packet Buffer Size	1Mbits	
Network Connector	4 x RJ-45	
	10/100/1000Base-TX Auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex	
	2 1000Base-X Fiber SC/ST connector	
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	

Industrial GbE Switch

Protocols	CSMA/CD		
LED	System: Power 1 (Green), Power 2 (Green), Fault (Amber)		
	UTP: Link/Active (Green)		
	Speed 10 (OFF), 100 (Green), 1000 (Yellow)		
	SFP Slot: Link/Active (Green)		
DIP SW	DIP 1	ON : Disable power failure alarm	
		OFF : Enable power failure alarm	
	DIP 2	ON : Disables broadcast storm protection	
		OFF : Enable broadcast storm protection	
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	7.9W		
Alarm Relay Contact	Relay outputs with current carrying capacity of 1A @24VDC		
Removable Terminal Block	Provides 2 Redundant power, Alarm relay contact, 6 Pin		
Operating Temperature	-10 ~ 60°C (IGS-402F)		
	-40 ~ 75°C (IGS-402F-E)		
Operating Humidity	5% to 95% (Non-condensing)		
Storage Temperature	-40 ~ 85°C		
Housing	Rugged Metal, IP30 Protection and Fanless		
Dimensions	106 x 62.5 x 134.8mm (D x W x H)		
Weight	0.68kg		
Installation Mounting	DIN Rail mounting or wall mounting (Optional)		
MTBF	821,412 Hours (MIL-HDBK-217)		
Warranty	5 years		

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
	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
Safety	UL60950-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6

10 Dimensions

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

Ordering Information

Model Name	Total Port	RJ45	Fiber		Power Input	Certification				Operating Temperature
		10/100/1000 Base-T	1000 Base-X	100/1000 Base-X	Redundant	UL60950-1	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	
IGS-402F	6	4	2 SC/ST		12/24/48VDC	V	V	V	V	-10~60℃
IGS-402F-E	6	4	2 SC/ST		12/24/48VDC	V	V	V	V	-40~75℃

Fiber Connector	Connectivity Distance
SC/ST	SC001: 500m (SC, M/M) 002 : 2km (M/M) SC020: 20km (SC, S/M) SC040: 40km (SC, S/M)
	SC020A: WDM 20km A type (TX:1310nm)
	SC020B: WDM 20km B type (TX:1550nm)

* MOQ is requested for ST type

Optional Accessories

■ Wall Mount Kit

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

■ 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