IFS-1602GS



16x FE RJ45 + 2x 1000Base-X SFP

- >> Provides a DIP-Switch to Set Functions
- >> Supports Power Failure Alarm Message by Relay
- >> 12/24/48VDC (9.6~60VDC) Redundant Dual Power input
- > EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified









The industrial unmanaged Ethernet switch IFS-1602GS provides stable and reliable Ethernet transmission, features 16 ports 10/100 UTP and equipped with 2 1000Base-X SFP slots. 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

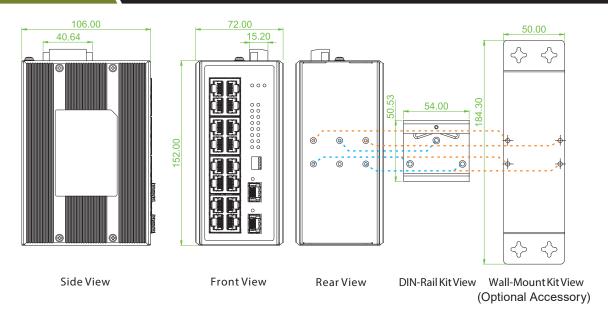
- Wide operating temperature -40 ~ 75°C (-E model)
- Provides broadcast storm protection
- 4KV surge protection for UTP ports
- 2.25K VDC Hi-pot isolation protection for Ethernet ports and power

Specifications					
Standard	IEEE 802.3	10Base-T Ethernet			
	IEEE 802.3u	100Base-TX and 100Base-FX Fast Ethernet			
	IEEE 802.3z	1000Base-X Gigabit Ethernet over fiber-optic			
	IEEE 802.3x	Flow Control and Back Pressure			
Switch Architecture	Back-Plane (Switching Fabric): 7.2Gbps (Full Wire-Speed)				
Data Processing	Store and Forward				
Transfer Rate	14,880pps for Ethernet port				
	148,800pps for Fast Ethe	rnet port			
	1,488,000pps for Giga Ethernet port				
Flow Control	IEEE 802.3x flow control, back pressure flow control				
Jumbo Frame	16K Byte				
MAC Address Table	16K				
Packet Buffer Size	4M bit				
Network Connector	16x RJ-45, 2x SFP				
	RJ-45 Port: Auto MDI/MD	OI-X function, 10/100Base-TX Auto negotiation speed, Full/Half duplex			
	2x 1000Base-X SFP port				
Fiber Cable	UTP/STP Cat. 5e cable or	above			
	EIA/TIA-568 100-ohm (10	OOmeter)			
	Fiber Cable (Multi-mode):	50/125um~62.5/125um			

Industrial Fast Ethernet Switch

Network Cable	Fiber Cable (Single-mode): 8/125um~10/125um			
	Wavelength: 1310nm (Multi-mode/Single-mode)			
	SFP: Distance depend on SFP Fiber Transceiver			
Protocol	CSMA/CD			
LED	System: Power 1 (Green), Power 2 (Green), Fault (Amber)			
	UTP: Link/Active (Green), Speed 100 (Yellow)			
	SFP Slot : Link/Active (Green)			
DIP SW	OFF: Enable power failure alarm			
	DIP 1 ON: Disable			
	DIP 2 Broadcast storm protection			
	OFF: Enable ON: Disables			
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	*** **			
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				
	-40 ~ 75°C (IFS-1602GS-E)			
Operating Humidity	5% to 95% (Non-condensing)			
Storage Temperature				
Housing	Rugged Metal, IP30 Protection and Fanless			
Dimensions	106 x 72 x 152mm (D x W x H)			
Weight	0.82kg			
Installation Mounting	DIN Rail mounting or wall mounting (Optional)			
MTBF	461,653 Hours (MIL-HDBK-217)			
Warranty	5 years			
Certification				
EMC/EMS	(
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE			
Railway Traffic	EN50121-4			
Immunity for Heavy Industrial Environment	EN01000-0-2			
Emission for Heavy Industrial Environment	EN61000-6-4			
EMS (Electromagnetic	EN61000-4-2 (ESD) Level 3, Criteria B			
Susceptibility)	EN61000-4-3 (RS) Level 3, Criteria A			
Protection Level	EN61000-4-4 (Burst) Level 3, Criteria A			
	EN61000-4-5 (Surge) Level 3, Criteria B			
	EN61000-4-6 (CS) Level 3, Criteria A			
Ui Dat loolation Drataction	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A			
Hi-Pot Isolation Protection	20 2.25.1. Ist perior to shadely ground, and one period chadely ground			
4KV Surge Protection	The state of the s			
Shock Freefall				
Vibration				
VIDIALION	IEC 60068-2-6			

Dimensions



Orderi	ng Int	formation					
Marial Name	Total	RJ45	SFP		Certification		Operating
Model Name	Port	10/100Base-TX	1000Base-X	EN50121-4	EN61000-6-2, EN61000-6-4	CE, FCC	Temperature
IFS-1602GS	18	16	2	V	V	V	-10~60°C
IFS-1602GS-E	18	16	2	V	V	V	-40~75°C

Optional Accessories

■ Wall Mount Kit

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

■ 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