IFS-500C

5x FE RJ45 (Compact Size)

- *Compact Size for Easy Installation*
- *IP30, Rugged Metal Housing, Fanless*
- *EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified*

The industrial compact size unmanaged Ethernet switch IFS-500C provides stable and reliable Ethernet transmission, features 5 ports 10/100Base-TX 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

- Wide range power input 12/24/48VDC (9.6~60VDC), or AC24V (18~36VAC)
- Wide operating temperature -40 ~ 75°C (-E model)
- Very low power consumption
- Supports flow control

Specifications

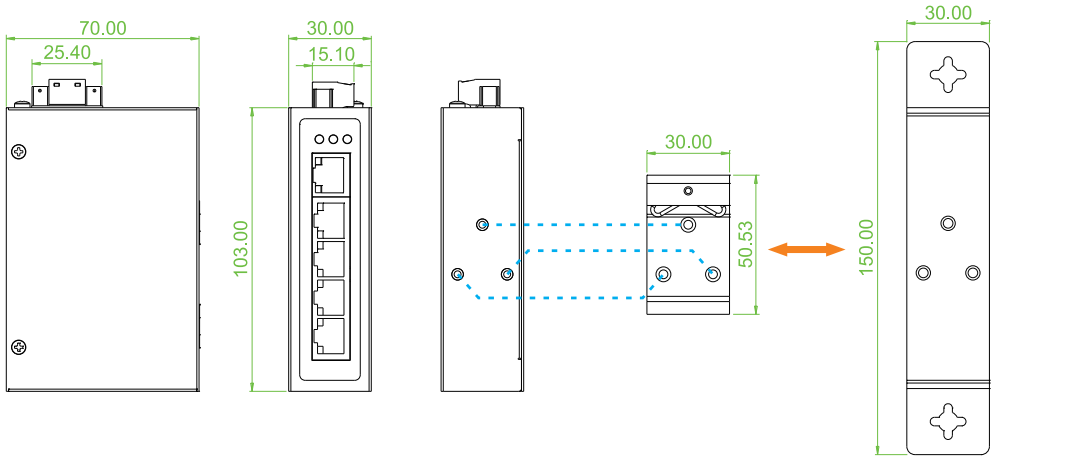
Standard	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX and 100Base-FX Fast Ethernet
	IEEE 802.3x	Flow Control
Switch Architecture	Back-Plane (Switching Fabric): 1.0Gbps (Full Wire-Speed)	
Data Processing	Store and Forward	
Transfer Rate	14,880pps for Ethernet port	
	148,800pps for Fast Ethernet port	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
MAC Address Table	1K	
Packet Buffer Size	448Kbits	
Network Connector	5x RJ-45	
	RJ-45 Port: Auto MDI/MDI-X function, 10/100Base-TX Auto negotiation speed, Full/Half duplex	
Network Cable	UTP/STP Cat. 5 cable or above	
	EIA/TIA-568 100-ohm (100meter)	
Protocol	CSMA/CD	
LED	System: Power (Green)	
	UTP: Link/Active (Green)	
	Speed 100 (Yellow)	
Reverse Polarity Protection	For DC input power protection	
Overload Current Protection	Supported	
Power Supply	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	0.9W
24 VDC	1.2W
48 VDC	2W

Removable Terminal Block	Provides for input power (2 Pin)
Operating Temperature	-10 ~ 60°C (IFS-500C)
	-40 ~ 75°C (IFS-500C-E)
Operating Humidity	5% to 95% (Non-condensing)
Storage Temperature	-40 ~ 85°C
Housing	Rugged Metal, IP30 Protection and Fanless
Dimensions	70 x 30 x 103mm (D x W x H)
Weight	220g
Installation Mounting	DIN Rail mounting or wall mounting (optional)
MTBF	1,738,327 Hours (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

Dimensions



Ordering Information

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

Optional Accessories

■ Wall Mount Kit

IND-WMK03	Wall Mount kit for Industrial product (Compact, 150 x 30mm)

■ 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