

## IFS-500C

5x 10/100Base RJ45 (Compact Size)



- EN50121-4, EN61000-6-2, EN61000-6-4, CE, FCC certified
- Compact size for easy installation
- IP30, rugged metal housing, fanless



IFS-500C is a compact sized, unmanaged industrial grade Fast Ethernet switch with 5 10/100Base-TX ports 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

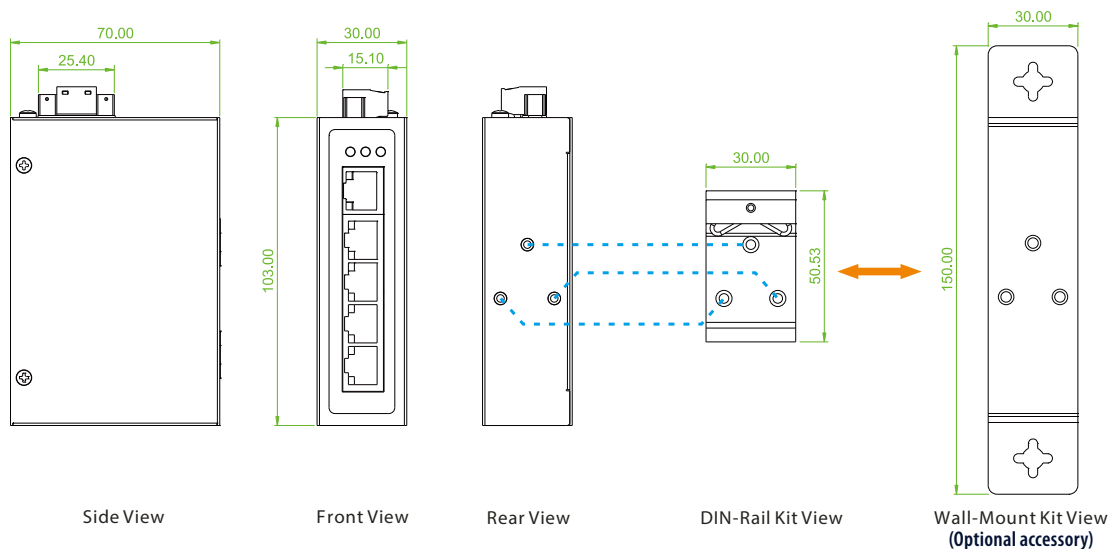
- Wide range input power 12/24/48VDC (9.6~60VDC), or AC24V (18~36VAC)
- Wide operating temperature -40 ~ 75°C (-E model)
- Very low power consumption
- Supports flow control

### Specifications

<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE 802.3x Flow Control and Back Pressure	
<b>Switch Architecture</b>	Back-plane (Switching Fabric) : 1.0 Gbps Full wire-speed	
<b>Data Processing</b>	Store and Forward	
<b>Transfer Rate</b>	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control	
<b>MAC Address Table</b>	1K	
<b>Packet Buffer Size</b>	448Kbits	
<b>Network Connector</b>	5x RJ-45 RJ-45 Port: Auto MDI/MDI-X function, 10/100Base-TX auto negotiation speed, Full/Half duplex	
<b>Network Cable</b>	10Base-T: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)	
<b>Protocol</b>	CSMA/CD	
<b>LED</b>	Per unit: Power (Green) RJ-45 Per port: Link/Active (Green), Speed 100 (Yellow)	
<b>Reverse Polarity Protection</b>	For DC input power protection	
<b>Overload Current Protection</b>	Supported	
<b>Power Supply</b>	DC 12/24/48V (9.6~60VDC) or AC 24V (18~36VAC) input power (Removable Terminal Block)	
<b>Power Consumption</b>	<b>Input Voltage</b>	<b>Power Consumption(Watt)</b>
	DC 12V	0.9W
	DC 24V	1.2W
	DC 48V	2W
<b>Removable Terminal Block</b>	Provides for input power (2 Pin)	

<b>Operating Temperature</b>	-10 ~ 60°C (IFS-500C) -40 ~ 75°C (IFS-500C-E)
<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40 ~ 85°C
<b>Housing</b>	Rugged Metal, IP30 Protection and Fanless
<b>Dimensions</b>	70 x 30 x 103 mm (D x W x H)
<b>Weight</b>	220g
<b>Installation Mounting</b>	DIN Rail mounting, or wall mounting (optional)
<b>MTBF</b>	1,738,327 Hours (MIL-HDBK-217)
<b>Warranty</b>	5 years
<b>Certification</b>	
<b>EMC/EMS</b>	CE
<b>EMI (Electromagnetic Interference)</b>	FCC Part 15 Subpart B Class A, CE
<b>Railway Traffic</b>	EN50121-4
<b>Immunity for Heavy Industrial Environment</b>	EN61000-6-2
<b>Emission for Heavy Industrial Environment</b>	EN61000-6-4
<b>EMS (Electromagnetic Susceptibility) Protection Level</b>	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
<b>Shock</b>	IEC 60068-2-27
<b>Freefall</b>	IEC 60068-2-32
<b>Vibration</b>	IEC 60068-2-6

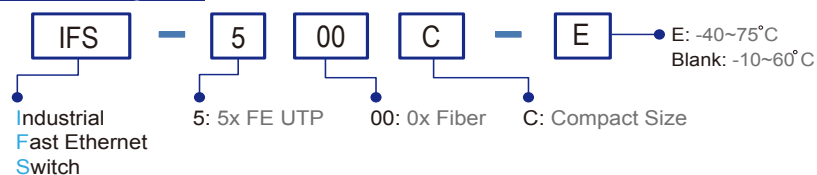
## Dimensions



## Ordering Information

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

### Model Naming Rule



### Package List

- IFS-500C device
- Din Rail with screws
- Terminal block

## Optional Accessories

### Wall mount kit Accessories

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