

# IFS-500C

5x 10/100Base RJ45 (Compact Size)



- Compact size for easy installation
- IP30, rugged metal housing, fanless



The IFS-500C is a compact sized, unmanaged industrial grade Fast Ethernet switch with 5 10/100Base-TX ports that provides stable and reliable Ethernet transmission. Housed in rugged DIN rail or wall mountable enclosures, the switch is designed for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and is 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

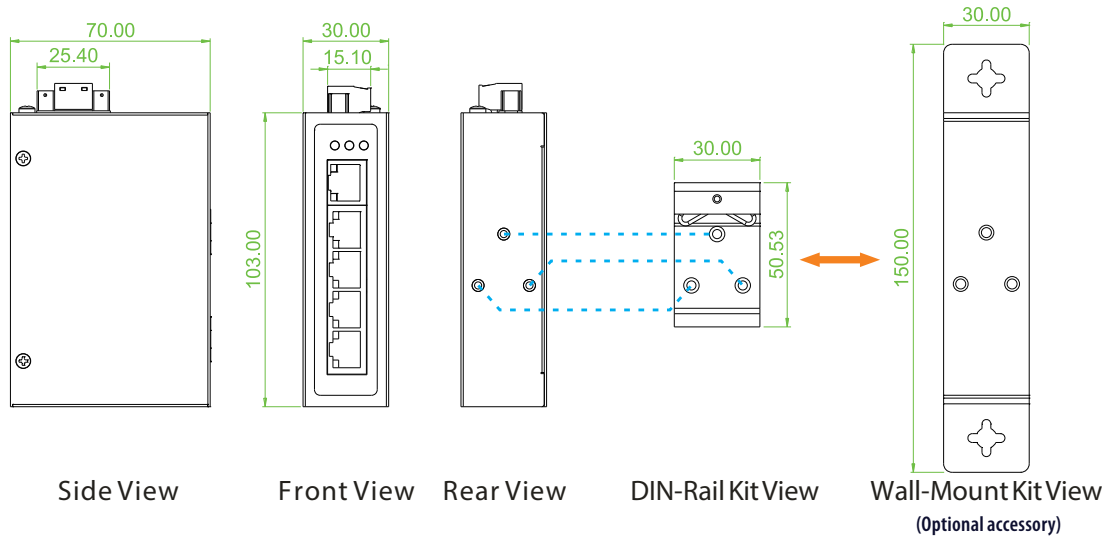
<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE 802.3x Flow Control and Back Pressure								
<b>Switch Architecture</b>	Back-plane (Switching Fabric) : 1.0 Gbps Full wire-speed								
<b>Data Processing</b>	Store and Forward								
<b>Transfer 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>	UTP/STP Cat. 5 cable or above EIA/TIA-568 100-ohm (100meter)								
<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>	<table border="1"> <thead> <tr> <th>Input Voltage</th> <th>Power Consumption(Watt)</th> </tr> </thead> <tbody> <tr> <td>DC 12V</td> <td>0.9W</td> </tr> <tr> <td>DC 24V</td> <td>1.2W</td> </tr> <tr> <td>DC 48V</td> <td>2W</td> </tr> </tbody> </table>	Input Voltage	Power Consumption(Watt)	DC 12V	0.9W	DC 24V	1.2W	DC 48V	2W
Input Voltage	Power Consumption(Watt)								
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 (EN55032, EN55035)
<b>EMI (Electromagnetic Interference)</b>	FCC Part 15 Subpart B Class A, CE
<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



Industrial Unmanaged FE Switch IFS-500C

## Dimensions



## Ordering Information

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

### Package List

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

## 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