

IFS-401F & IFS-402F

4x 10/100Base RJ45 + 1x (or 2x) 100Base Fiber (ST/SC)

- ▲ Provides a DIP-Switch to set functions
- Supports power failure alarm message by relay
- ▲ 12/24/48VDC (9.6~60VDC) redundant dual input power
- ▲IP30, rugged metal housing, fanless
- ▲ EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC certified









The industrial unmanaged Ethernet switches provide stable and reliable Ethernet transmission, IFS-401F and IFS-402F have 4-port 10/100 UTP and are equipped with 1 or 2 100bps SC/ST optical fiber ports to meet Requirements for extending transmission distance 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

Specifications	5		
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 (Switch	ning Fabric): IFS-401 1.0Gbps, IFS-402 1.2Gbps (Full Wire-Speed)	
Data Processing	Store and Forward		
Transfer Rate	14,880pps for Ethernet port		
	148,800pps for Fast Ethernet port		
	1,488,000pps for Giga Ethernet port		
Flow Control	IEEE 802.3x flow control, back pressure flow control		
Provides Broadcast Storm Protection	Present, Enable /Di	isable set by DIP SW	
MAC Address Table	2K		
Packet Buffer Size	448Kbit		
Network Connector	4x RJ-45, 1x Fiber (IFS-401F), 4x RJ-45, 2x Fiber (IFS-402F)		
	RJ-45 Port: Auto MI	DI/MDI-X function, 10/100Base-TX Auto negotiation speed, Full/Half duplex	
	1 or 2x 100Base-FX	SC/ST fiber port, Multi/Single Mode	
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): 8/125um~10/125um		
	Wavelength: 1310nm (Multi-mode/Single-mode)		
	Available distance: 2KM (Multi-Mode), 30KM (Single-Mode), 50KM (Single Mode)		



Industrial Fast Ethernet Switch



Protocol	CSMA/CD		
LED	System: Power 1 (Green), Power 2 (Green), Fault (Amber)		
	UTP: Link/Active (Green), Speed 100 (Yellow)		
	Fiber: 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	4.4W (IFS-401F) 5.8W (IFS-402F)		
Alarm Relay Contact	Relay outputs with current carrying capacity of 1 A @24VDC, NC		
Removable Terminal Block	Provides 2 Redundant power, Alarm relay contact, 6 Pin		
Operating Temperature	-10 ~ 60°C (IFS-401F, IFS-402F)		
	-40 ~ 75°C (IFS-401F-E, IFS-402F-E)		
Operating Humidity	5% to 95% (Non-condensing)		
Storage Temperature	-40 ~ 85°C		
Housing	Rugged Metal, IP30 Protection and Fanless		
Dimensions	106 x 31.6 x 142mm (D x W x H)		
Weight	0.37kg (IFS-401F), 0.42kg (IFS-402F)		
nstallation Mounting	DIN Rail mounting, or wall mounting (Optional)		
MTBF	908,971 Hours (IFS-401F) 907,622 Hours (IFS-402F) (MIL-HDBK-217)		
Warranty	5 years		

Certification

CE (EN55032, EN55035)		
FCC Part 15 Subpart B Class A, CE		
EN50121-4		
EN61000-6-2		
EN61000-6-4		
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		
IEC 60068-2-27		
IEC 60068-2-32		
IEC 60068-2-6		

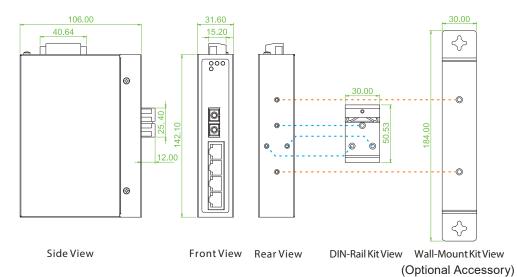


Industrial Fast Ethernet Switch

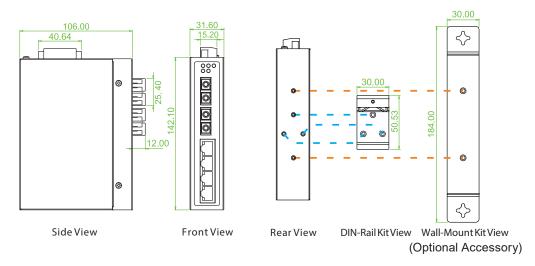


Dimensions





► IFS-402F



Ordering Information

	.	RJ45 UTP Port	Fiber Port		Certification		
Model Name	Total Port	10/100Base-TX	100Base-FX	EN50121-4	EN61000-6-2 EN61000-6-4	CE, FCC	Operating Temperature
IFS-401F	5	4	1 SC/ST	V	V	V	-10~60°C
IFS-401F-E	5	4	1 SC/ST	V	V	V	-40~75°C
IFS-402F	6	4	2 SC/ST	V	V	V	-10~60°C
IFS-402F-E	6	4	2 SC/ST	V	V	V	-40~75°C

Fiber Connector	Connectivity Distance	
SC, ST	002: 2km 030: 30km 050: 50km	
020A: WDM Bidi 20km A type (TX:1310nm) 020B: WDM Bidi 20km B type (TX: 1550nm)		

Optional Accessories

■ Wall Mount Kit

IND-WMK01 Wall Mount kit for Industrial product, 184 x 30mm (Narrow)

■ 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

