

## Industrial Fast Ethernet Switch

## IFC-1400X



The IFC-1400X is industrial grade Fast Ethernet Switch that provides 4-port 10/100Base-TX and 1-port 100Base-FX. The reliable hardware design is suitable for keeping industrial automation application running continuously. Each IFC-1400X media converter comes with two relay output alarms and two redundant DC power inputs to help prevent damage and loss. The IFC-1400X media converter is available in models that support operating temperatures of -40 to 85 degree C.

## Features

- 4-port 10/100Base-TX to 100Base-FX Switch
- Auto-Negotiation on two LAN port
- Auto MDI/MDIX
- Supports max forwarding packet length 1552 bytes
- Supports Q in Q double tagged frame transparent
- Supports IEEE 802.1q Tag VLAN pass thru
- Supports flow control (Pause)
- Supports Far End Fault
- Supports two Relay out (Arc-Free Contact)

## Industrial Grade Performance

- Power or Optical Fiber failure alarm by relay output
- Supports DIN-Rail & wall mount
- -40°C ~ 85°C operating temperature range
- Redundant dual DC power inputs

## Specifications

## Optical Interface

**Connector:** 1x9 (SC,FC,ST)

**Data rate:** 100Mbps

**Duplex mode:** Full duplex

**Fiber** MM 50/125μm, 62.5/125μm. SM 9/125μm

**Distance**

MM 2km, SM 15/30/50/80/120km,

WDM 20/40/60/80km

**Wavelength**

MM 1310nm, SM 1310,1550nm

WDM 1310Tx/1550Rx (type A)

1550Tx/1310Rx (type B)

## Electrical Interface

**Connector:** RJ45

**Data rate:** 10Mbps, 100Mbps

**Duplex mode:** Half / Full duplex

**Cable**

10Base-T Cat.3, 4, 5, UTP,

100Base-TX Cat.5, 5e or higher

## Standards

IEEE 802.3, IEEE 802.3u

## LED Indications

PWR 1/2, FX-Link/Act, LAN1-Link/Act,

LAN2-Link/Act, Alarm

(Power or Optical Fiber Failure Alarm)

## Power

**Power Input**

12-48 VDC

**Power Consumption:** < 4.8W

## Mechanical

**Dimensions**

106 x 62.5 x 134.8mm (D x W x H)

**Weight**

0.46kg

**Physical Characteristics**

Housing: Metal

**IP Protection**

IP30

## Environmental

**Temperature**

Operating: -40°C ~ 85°C

Storage: -40°C ~ 85°C

**Humidity**

0 ~ 90% non-condensing

## Approvals

**Safety**

EN60950-1

**EMI**

FCC Part 15, CISPR(EN55022) ClassA

**EMC**

EN61000-4-2 (ESD), Level3

EN61000-4-3 (RS), Level3

EN61000-4-4 (EFT), Level3

EN61000-4-5 (Surge), Level3

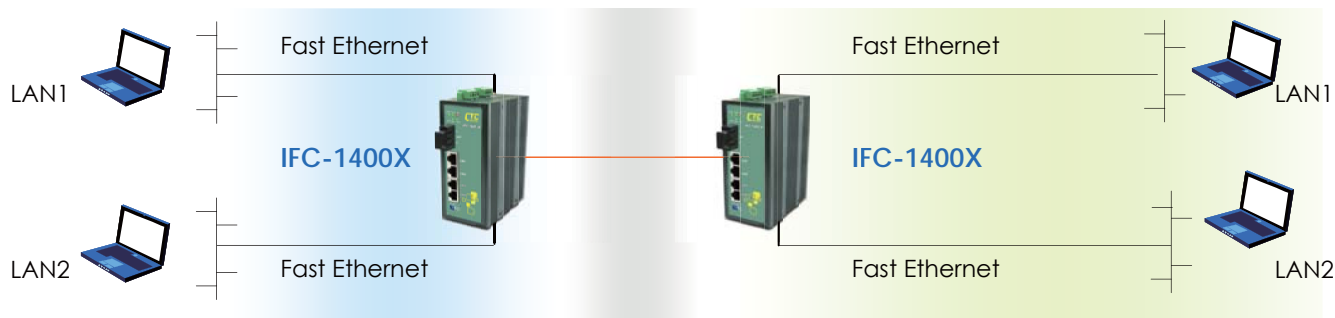
EN61000-4-6 (CS), Level3

EN61000-4-8

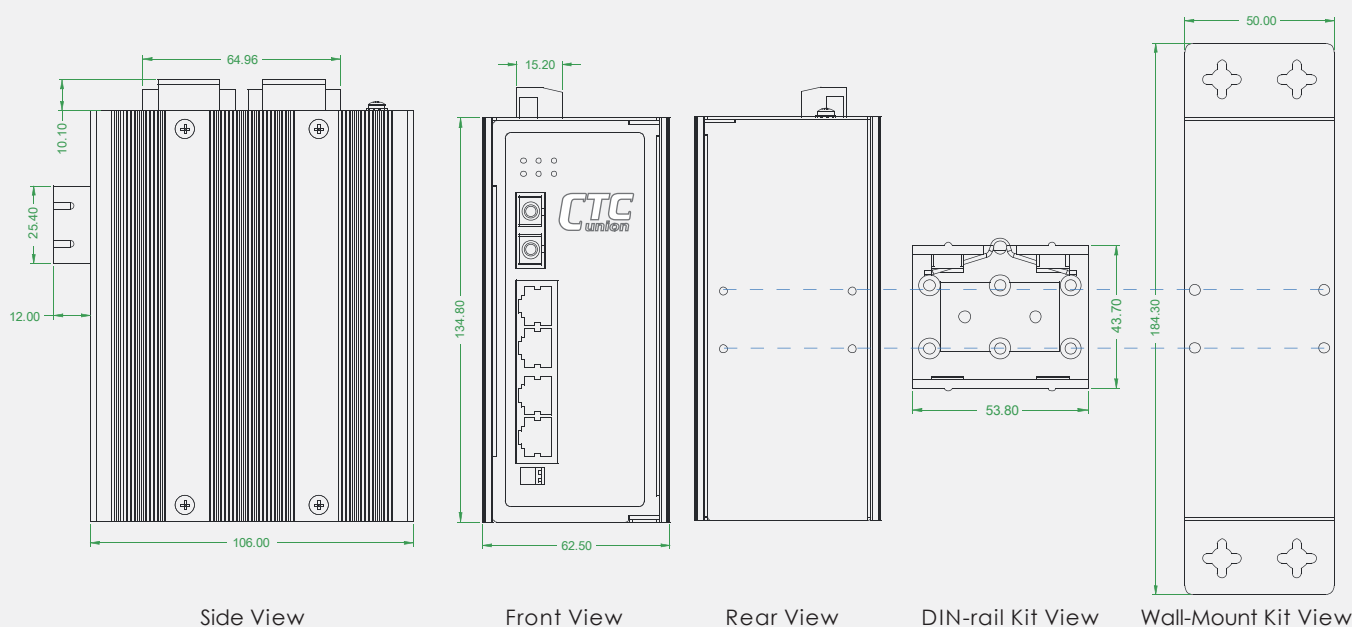
EN61000-4-11

**MTBF** 135,202 hrs

## Applications



## Dimensions



## Ordering Information

### Model Name Description

**IFC-1400** 4x 10/100Base-TX to 100Base-FX Fast Ethernet switch;  
Temperature Range : 0 ~ 60 degree C

**IFC-1400X** 4x 10/100Base-TX to 100Base-FX Fast Ethernet switch (wide range temp.);  
Temperature Range : -40 ~ 85 degree C

### Connector Type Connectivity Distance

Connector Type	Connectivity Distance
SC, ST, FC	002: 2km 015: 15km 030: 30km 050: 50km 080: 80km 120: 120km
	* 20A: WDM 20km A type * 20B: WDM 20km B type * 40A: WDM 40km A type * 40B: WDM 40km B type
	* 60A: WDM 60km A type * 60B: WDM 60km B type * 80A: WDM 80km A type * 80B: WDM 80km B type

\* Standard model (IFC-1400) has 0 ~ 60°C operating range.

Note: Connectivity Distance: 120/80A/80B only for IFC-1400

Connector Type Connectivity Distance  
**IFC -**     -      
 Example: IFC - 1400 - SC002