



**IFE-C130:** Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP

### Key Features

- LFP (Link Fault Pass-through) Function
- Choice of SC, ST or LC connector for multimode and single mode
- DIP Switch to set configurations
- Support packet length up to 1536 bytes
- Support operating temperature range of -10°C to 60°C
- Provide Chassis or Din Rail installation
- Provide optional -10~60°C AC-DC power adapter
- RoHS Compliance

### Overview

**IFE-C130** is an industrial 10/100Base-TX to 100Base-FX media converter with LFP (Link Fault Pass-through) function for easily tracing the network link failure. LFP function enhances the integrity and conformity of the TP-Fiber link and improves the maintainability of the network. **IFE-C130** can be installed in CR-1112 converter chassis, or powered through external power adapter. Five LEDs are provided to monitor the operation status of the converter, and the DIP Switch on the side panel is used to set the required working configurations to meet various applications.

### Technical Specifications

- **Standard Compliance:** IEEE802.3u 10/100Base-TX, 100Base-FX
- **Data Transfer Rate**
  - 100Mbps:148,800 pps
  - 10Mbps:14,880 pps
- **Buffer Memory:** 128K
- **Connector**
  - RJ-45: 10/100Mbps (Auto-negotiation)
  - ST/SC/LC: 100Mbps
- **Cable**
  - TP: Cat.5 (Support distance up to 100m)
  - Fiber (M-M): 50/125,2.5/125,100/140m(Support distance up to 2Km)
  - Fiber (S-M): 8.3/125,8.7/125,9/125,100/125µm (Support distance up to 100Km)
- **Flow Control**
  - IEEE802.3x compliant for full-duplex
  - Backpressure flow control for half-duplex
- **LED**

LED	Description
FX LNK/ACT	Fiber connection/Active
FX FDX/COL	Fiber Full duplex/ Collision
TX LNK/ACT	TP connection / Active
TX 100	TP 100M Speed
POWER	Power link

#### • DIP Switch Function

DIP Switch	Description
TP port mode	Auto (default) or Force
TP port speed	100 or 10 when TP at Force
TP port duplex	FDX or HDX when TP at Force
LFP	LFP enabled (default) or disabled
Fiber port duplex	100 FDX (default) or 100 HDX

#### • Network Interface:

Category	Connector	Transmission	Max. Cable Length	Wavelength
10-T/100-TX	RJ-45	Full/Half Duplex	100M	
100-FX (M-M)	SC/ST	Full/Half Duplex	2Km 50/125µm	1310nm
100-FX (S-M)	SC	Full/Half Duplex	5/20/60Km 9/125µm	1310nm
100-FX (S-M)	Bidi-SC	Full/Half Duplex	20Km 9/125µm	1310nm 1550nm

## • Hardware Spec

Feature	Detailed Description
<b>Voltage</b>	+5V DC
<b>Ambient Temperature</b>	-10°C to 60°C
<b>Humidity</b>	5% to 95%
<b>Dimensions</b>	26.2(H) x 70.3(W) x 94(D) mm
<b>Weight</b>	0.2kg
<b>Installation</b>	Desktop, Chassis, Din Rail (Optional )
<b>EMI</b>	CISPR 22:A1:2000+A2:2002 ICES-003:2004, Class A
<b>EMC</b>	EN55022:Class A EN61000-3-2:2000 EN61000-3-3:1995+A1:2001 EN55024 IEC61000-4-2/3/4/5/6/8/11
<b>Shock</b>	IEC60068-2-27
<b>Freefall</b>	IEC60068-2-32
<b>Vibration</b>	IEC60068-2-6
<b>Casing</b>	IP20 Protection
<b>MTBF</b>	185,000 hr
<b>Warranty</b>	3 Years

**Packing Information**

Carton Dimensions(mm)	pcs/Carton	N.W (KG)	G.W(KG)
530x512x345	40	24	25

**Ordering Information**

<b>IFE-C130SC</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, SC Multi-Mode
<b>IFE-C130ST</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, ST Multi-Mode
<b>IFE-C130MT</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, MT-RJ Multi-Mode
<b>IFE-C130VF</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, VF-45 Multi-Mode
<b>IFE-C130SC.S05</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, SC Single-Mode 5km
<b>IFE-C130SC.S20</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, SC Single-Mode 20km
<b>IFE-C130SC.S40</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, SC Single-Mode 40km
<b>IFE-C130SC.S60</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, SC Single-Mode 60km
<b>IFE-C130SC.S80</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, SC Single-Mode 80km
<b>IFE-C130SC.SA0</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, SC Single-Mode 100km
<b>IFE-C130BS3.S20</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, Bidi SC Single-Mode 20km, 1310nm
<b>IFE-C130BS5.S20</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, Bidi SC Single-Mode 20km, 1550nm
<b>IFE-C130BS3.S40</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, Bidi SC Single-Mode 40km, 1310nm
<b>IFE-C130BS5.S40</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, Bidi SC Single-Mode 40km, 1550nm
<b>IFE-C130BS3.S60</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, Bidi SC Single-Mode 60km, 1310nm
<b>IFE-C130BS5.S60</b>	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP, Bidi SC Single-Mode 60km, 1550nm

**Optional Accessories**

- DRK-35: DIN-RAIL Mounting Kit
- MDR-20-5: 15W/3A DIN-Rail 5VDC Power Supply with universal 85 to 264 VAC input

**Ruby Tech Corp.**

3F, No.1, Lane 50, Nan Kang Road, Sec.3, Taipei, Taiwan  
TEL:886-2-2785-3961 FAX:886-2-2786-3012

<http://www.rubyttech.com.tw>  
E-mail : [rubyttech@mail.rubyttech.com.tw](mailto:rubyttech@mail.rubyttech.com.tw)