



IFE-C700A:

Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP Wide Temperate

Key Features

- One port 10/100 TX to 100 FX media converter
- Choice of SC, ST or LC connector for multimode and single mode
- Supports packet length up to 2046 bytes
- Supports 9K jumbo packets
- LFP (Link Fault Pass-through) far-end fault detection technology
- Power failure, port break alarm by relay output
- Power redundancy with wide range input, DC24V (12~48V)
- Reverse power polarity protection
- IP-30 grade protection case
- -40°C~75°C wide operating temperature for hazardous environment applications
- RoHS Compliance

Overview

IFE-C700A is a 1-port media converter qualified for extended distance transmission under harsh environment. For the easy maintenance and time-saving, IFE-C700A features remote Link Fault Pass Through technology which provides remote link down signal forwarding, acknowledging link events occurred on each end of IFE-C700A to main server. To activate forwarding mode and LFP functions, simply adjust DIP switch then reset the converter, the reconfigurations will be applied. Single-mode and Multi-mode fiber optical ports meet your needs for long distance transmission up to 100 Km.

When you are ready to install IFE-C700A, you will find out that it can be easily wall mounted and be mounted directly on DIN rail. IFE-C700A has two DC24V inputs, and it is also compatible with range from DC12V~48V. Dual power inputs and built-in reverse polarity protection are designed as the redundant power system to ensure your power on each end of IFE-C700A to main server. With IP 30 rigid aluminum case,

Technical Specifications

- **Standard Compliance:**
 - IEEE802.3 10BASE-T
 - IEEE802.3u 100BASE-TX/100BASE-FX
 - IEEE802.3x Flow Control and Back pressure
- **Data Transfer Rate**
 - 100Mbps:148,800 pps
 - 10Mbps:14,880 pps
- **Buffer Memory:** 228K
- **Connector**
 - RJ-45: 10/100Mbps (Auto-negotiation)
 - ST/SC/LC: 100Mbps
- **Cable**
 - TP: Cat.5 (Support distance up to 100m)
 - Fiber (M-M):50/125,2.5/125,100/140μm
 - 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 Description**

LED	Color	Function
100FX-LNK/ACT	Green	Lit when fiber connection is good Blink when fiber data is present
100FX-FDX	Green	Lit when full-duplex mode is active Off when half-duplex mode is active
TX LNK/ACT	Green	Lit when TP connection is good Blink when TP data is receiving
TX 100	Yellow	Lit when TP speed is 100Mbps Off when TP speed is 10Mbps
PWA	Green	Lit when power PWA is coming up
PWB	Green	Lit when power PWB is coming up
PWR	Green	Lit when DC JACK, PWA, PWB power is coming up

DIP Switch Function

Switch	Description
Fiber FDX/HDX	Fiber port 100 FDX or 100 HDX
Jumbo ON/ OFF	Enable/ Disable jumbo frame
LFP ON / OFF	Link Fault Pass through Enabled or Disabled
TP-100 / 10	100Mbps or 10Mbps when TP at Force
TP-FDX/HDX	Full Duplex or Half Duplex when TP at Force
TP-Auto / Force	TP port at Auto-nego mode or Force mode
Alarm ON/OFF	Alarm port Enable/Disable

*Alarm Relay contact active support port link down or power failure

CE/FCC regulatory approvals, and 3-year global warranty, IFE-C700A series are your reliable choices for hazardous applications.

• 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	5/20/60/ 100Km 9/125µm	1310nm
100-FX (S-M)	Bidi-SC	Full/Half Duplex	20Km 9/125µm	1310nm 1550nm
100FX (S-M)	LC	Full/Half Duplex	5/20/60/ 100Km 9/125µm	1310nm

• Hardware Spec

Feature	Detailed Description
Power Characteristics	Power supply: 24VDC (12~48VDC)
	Power consumption: 3.37 W
Ambient Temperature	-40°C~75°C
Humidity	5% to 95%
Dimensions	108(H) x 29.8(W) x 98(D) mm
Weight	0.44 kg
Installation	Din Rail, Wall mount, Desktop
EMI	CISPR 22:A1:2000+A2:2002
	ICES-003:2004, Class A
EMC	EN55022:Class A
	EN61000-3-2:2000
	EN61000-3-3:1995+A1:2001
	EN55024
	IEC61000-4-2/3/4/5/6/8/11
Shock	IEC60068-2-27
Freefall	IEC60068-2-32
Vibration	IEC60068-2-6
Case	IP30 Protection
MTBF	192000hr
Warranty	3 Years

Packing Information

Carton Dimensions (mm)	pcs/Carton	N.W (KG)	G.W (KG)
602x447x348	40	24.4	25.4

Order Information

IFE-C700ASC	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP Wide Temperature, SC Multi-Mode
IFE-C700ABS3.S20	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP Wide Temperature, Bidi SC Single-Mode 20km, 1310nm
IFE-C700ABS5.S20	Industrial 10/100Base-TX to 100Base-FX FE Media Converter with LFP Wide Temperature, Bidi SC Single-Mode 20km, 1550nm

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