



FC-160:

10/100/M to 100Base-X Bridge Fiber Converter with LFP

Key Features

- LFP (Link Fault Pass-Through) function
- Power from external power adapter
- Choice of SC or ST connector for multimode and single mode
- Supports packet length up to 1536 bytes
- Compact plastic housing
- RoHS Compliance

Overview

FC-160 is a 10/100Base-TX to 100Base-FX media converter, which features LFP (Link Fault Pass-through) function for easily tracing the network link fail. LFP function can enhance the integrity and conformity of the TP-Fiber linking to improve the maintainability of the network. Two LED's are provided to monitor the operation status of the converter.

Technical Specifications

- **Standard Compliance:** IEEE802.3u 10/100Base-TX, 100Base-FX
- Power from external power adapter
- Choice of SC, ST or LC connector for multimode and single mode
- Support packet length up to 1536 bytes
- **Data Transfer Rate**
 - 100Mbps: 148,800 pps
 - 10Mbps: 14,880 pps
- **MAC address:** 2K
- **Buffer Memory:** 384K
- **Connector**
 - RJ-45: 10/100Mbps (Auto-negotiation)
 - ST/SC: 100Mbps
- **Cable**
 - TP: Cat.5 (Support distance up to 100m)
 - Fiber(M-M): 50/125, 62.5/125, 100/140µm (Support distance up to 2Km)
 - Fiber (S-M): 8.3/125, 8.7/125, 10/125µm (Support distance up to 100Km)
- **Flow Control**
 - IEEE802.3x compliant for full-duplex
 - Backpressure flow control for half-duplex

Fiber Transceiver Specifications

Connector Type	Fiber Type	Wavelength (TX/RX)	Typical Distance	Min TX PWR (dbm)	Max TX PWR (dbm)	Sensitivity	Link Budget
SC/ST	M-M	1310nm	2km	-19	-14	-30	11
SC.S05	S-M	1310nm	5km	-20	-8	-32	12
SC.S20	S-M	1310nm	20km	-15	-8	-31	16
SC.S40	S-M	1310nm	40km	-8	-2	-34	26
SC.S60	S-M	1310nm	60km	-5	0	-34	29
SC.S80	S-M	1550nm	80km	-6	-4	-34	28
SC.SA0	S-M	1550nm	100km	-6	-4	-36	30

LED Indicator

LED	Color	Function
FX LNK/ACT	Green	Lit when both fiber & TP connection are good Blink when fiber data is present
TX LNK/ACT	Green	Lit when TP connection is good Blink when TP data is receiving

- **Power Requirement:** 1A@+5VDC from AC-DC Adapter
- **Operation Temperature:** 0 ~ 50°C
- **Humidity:** 5% ~ 90%
- **Safety:** Complies with FCC Part 15 Class A & CE Mark

Order Information

FC-160: 10/100M TP to 100Base-FX Bridge Fiber Converter with LFP