

JC100SM/ JC100TM



JC100SM 100Mbps Fiber Converter Multi Mode SC Type

JC100TM 100Mbps Fiber Converter Multi Mode ST Type

JC100SM/TM 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.

JC100SM/TM is powered thru external power adapter or use power from USB port on the hosting device such as PC or NB. This unique idea of using USB port power offers great flexibility when deploying this converter. Five LED's 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 application.

Key Features

- LFP (Link Fault Pass-through) Function
- Power from External Power Adapter or from USB Port
- Choice of SC, ST or LC connector for multimode and single mode
- DIP Switch to set configurations
- Support packet length up to 1536 bytes
- 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 : 100Mbps
- **Cable**
 - TP : Cat.5 (Support distance up to 100m)
 - Fiber (M-M) : 50/125 , 62.5/125 , 100/140 μ m
(Support distance up to 2Km)
 - Fiber (S-M) : 8.3/125 , 8.7/125 , 9/125 , 10/125 μ m
(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 (dbm)	Link Budget (dbm)
SC/ST	M-M	1310nm	2km	-19	-14	-30	11

LED Indicator

LED	Color	Function
FX LNK/ACT	Green	Lit when both fiber & TP connection are good Blink when fiber data is present
FX FDX/COL	Amber	Lit when full-duplex mode is active Off when half-duplex mode is active Blink when collision is present
TX LNK/ACT	Green	Lit when TP connection is good Blink when TP data is receiving
TX 100	Green	Lit when TP speed is 100Mbps Off when TP speed is 10Mbps
POWER	Green	Lit when 5V power is coming up

■ DIP Switch Function

- 1 ■ TP port mode Auto (default) or Force
- 2 ■ TP port speed 100 or 10 when TP at Force
- 3 ■ TP port duplex FDX or HDX when TP at Force
- 4 ■ LFP LFP enabled (default) or disabled
- 5 ■ Fiber port duplex 100 FDX (default) or 100 HDX

■ Power Requirement

- 1A@+5VDC from AC-DC Adapter
- 0.5A@+5VDC from USB port

■ Operation Temperature : 0~50°C

■ Humidity : 5~90%

■ Dimensions : 26.2(H) x 70.3(W) x 94(D) mm

■ Certification : FCC Part 15 Class A & CE Mark

Ordering information

MODEL	DESCRIPTION
JC100SM	10/100Mbps Fiber Converter Multi Mode SC Type, with USB jack
JC100TM	10/100Mbps Fiber Converter Multi Mode ST Type, with USB jack

