



# REPEATER FAST ETHERNET MEDIA CONVETER

**MODEL: MODEL1100R Serial**

## Overview:

The Converters and Repeaters can be used to convert various optical fiber digital signals, such as Ethernet, ATM, SDH, and control signals etc. Using high efficiency conversion circuits, high quality IC chips, and high quality optical transceivers integrated module, the products are stable performance, good quality, and applicable to various environments of optical fiber digital transmission. Two optical fiber interfaces (SC/ST/FC) of the Converter can achieve conversion of optical signals between multi/multimode optical fiber, between Single/multi-mode fiber or between Multi/single-mode fiber. MODEL1100R series converters: the max distance of multi-mode fiber is up to 2km, single-mode fiber is available from 25 to 120km. MODEL1100R Serial Media Converter Card could be used alone, them can inserted to 14 slots Converters Rack supplied by ZHT Crop (RACK2000-14). Suitable for the use of Network Centre...

## Picture:



## Main features:

- Multiple Optical Transceiver could be chosen: SC, ST or FC, single-mode / multi-mode
- Supporting 1600 bytes packet for management
- Converter working mode could be chosen: Store and forward switch mode, Modified cut-through switch mode, or Converter mode.
- Internal Circuit of prevented thunder could greatly reduce damage of the converter caused by thunderbolt induction.
- Internal or External switching power: for users to choose.

## Specifications:

- Operating standards: IEEE802.3 , 100Base-FX Fast Ethernet, IEEE802.3x Flow control
- MAC addresses table: 1K
- Data buffer: Built-in 128Kbyte RAM
- Fiber Connector: ST/SC/FC, 100Base-FX
- Cable:
  - Dual-fiber Multi-mode: 5Km (Fiber size: 62.5/125 $\mu$ m)/2Km (fiber size: 50/125 $\mu$ m)
  - Dual-fiber Single-mode: 25/40/60/80/100/120Km; Single-fiber Single-mode: 25/40/60/80Km.
- Flow Control
  - Full Duplex: Supporting standard IEEE802.3x
  - Half Duplex: back pressure

### 1. Optical Port

- Optical Port ( Port 1 and Port 2)
- Standards: IEEE802.3 100Base-FX
- Working: Asynchronous, point to point
- Optic port rate: 100Mbps
- SC/PC, ST/PC and FC/PC optional
- Wavelength: 850nm/1310nm/1550nm
- Transfer distance: Fiber optic: 25,40,60,80,100,120Km (SM)  
2Km (MM) optional
- Fiber optic cables: Single mode: 8.3/125,8.7/125,9/125 or 10/125  $\mu$ m  
Multi-Mode: 50/125,62.5/125  $\mu$ m

### 3. Power

- Input DC: 5 VDC
- Consumption: Standalone < 1W

### 4. Power Adapter

- Input: 85VAC~265VAC, 0.2A, 50/60Hz
- Output: 5VDC, 1A

### 5. Environment

- Temperature: 5°C ~ 40°C;
- Humidity: 30% ~ 90% (25°C);

### 6. LEDs

- PWR, FDX, LINK, ACT, FX, TX 100

### 7. Appearance

- Dimensions: 94.0 x 71.0 x 26.0mm
- Shell: Iron
- Color: Black
- Weight: 240g

### Information Order:

#### MODEL1100R-X-Y

X, Y: Select: M2: Multi-mode 2Km, M5: Multi-mode  
S20, S40, S60, S80, S100, S120: Single-mode 20, 40, 60, 80, 100, 120Km  
SS20, SS40, SS60, SS80: Single fiber Single-mode 20, 40, 60, 80Km

Type	Connector	Fiber type	Wavelength (Nm)	Max. distance	TX power (dBm)	Sensitivity	Link Budget
M2	SC Duplex	Multi-mode	850	2Km	-13~-8	-30dBm	17dBm
M5	SC Duplex	Multi-mode	850/1310	2Km	-13~-8	-30dBm	17dBm
S20	SC Duplex	Single-mode	1310	20km	-14~-8	-32dBm	18dBm
S40	SC Duplex	Single-mode	1310	40km	-8~-3	-33dBm	25dBm
S60	SC Duplex	Single-mode	1550	60km	--3~0	-36dBm	33dBm
S80	SC Duplex	Single-mode	1550	80km	-10~-5	-35dBm	25dBm
S100	SC Duplex	Single-mode	1550	100km	-5~0	-36dBm	31dBm
S120	SC Duplex	Single-mode	1550	120km	0~+3	-36dBm	36dBm
SS20	SC Simplex	Single-mode	1310/1550	20km	-14~-8	-32dBm	18dBm
SS40	SC Simplex	Single-mode	1310/1550	40km	-8~-3	-33dBm	25dBm
SS60	SC Simplex	Single-mode	1490/1550	60km	-3~0	-36dBm	33dBm
SS80	SC Simplex	Single-mode	1490/1550	80km	-10~-5	-35dBm	25dBm

Due to continuous improvement, all products specifications are subject to change without further notice.  
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