

## User Manual for Fiber to Serial Media Converter Rack –SC09FSR



The Media Converter Rack is a 19 inch 2U Rack. Maximum 14 Multimode, Single mode optical transceivers can be installed in one Rack. The Rack not only reduces the number of tie wires and simplifies the structure, but also facilitates easy management and maintenance.

Various Power Supplies with Single or Dual power supplies are available in the Rack.

### Features

- ✓ 14 slots standard 19Inch 2U Rack.
- ✓ Dual fans for cooling.
- ✓ Well shielded power supply prevents electromagnetic radiations.

### Installation

1. According to your needs, insert Media Cards in the slots.
2. Connect the Power cord.
3. Power On the switch on the back of the chassis. The power indicator lamp on the back plate will glow.
4. Check the POWER Led's of the Media Converters. If Led glows then the power to the cards is normal, otherwise check the power to the chassis.

### Technical Specifications

1. Slots :14 slots
2. Power supply : AC100-265V,50-60HZ

### RS-232/422/485 to Fiber Converter Cards

#### Features

- Converts RS-232/422/485 signal to SM/MM Fiber
- Extends RS-232/422/485 transmission distance: Up to 120 km with Single mode, Up to 2 km with Multi mode
- Supports baud rate up to 115.2 Kbps
- Auto Baud Rate Detection

#### Specifications

##### Serial Communications

RS-232 Signals	: TX, RX, GND
4-wire RS-485 Signals	: TX+, TX-, RX+, RX-, GND
2-wire RS-485 Signals	: TX+, TX-, GND
Baud Rate	: 300 bps to 115.2 Kbps
Surge Protection	: 15 KV ESD

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### Fiber Communication

Distance: Single mode fiber for 120 km, Multi mode fiber for 2 km  
Cable : SM: 8.3/125, 8.7/125, 9/125 or 10/125  $\mu\text{m}$   
: MM: 50/125, 62.5/125, or 100/140  $\mu\text{m}$

Wavelength SM: 1310 nm, MM: 850/1310 nm  
Min. TX Output SM: -9 dBm, MM: -16 dBm  
Max. TX Output SM: -6 dBm, MM: -7 dBm  
RX Sensitivity SM : -32dBm

**LED:** TX: Transmits Data from fiber,  
RX: Receives Data from fiber,  
SD: Fiber connectivity,  
PWR: Power is active.

**Interface:** 8 Pin Terminal Block connector

1	TX
2	RX
3	GND
4	GND
5	TX+
6	TX-
7	RX+
8	RX-