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16 Slots Media Converter Chassis User Reference Manual, SC09FER O Series

The Media Converter Rack is a product specially researched and designed as the supportive equipment for Fiber-optic network projects. Its stable performance, large power-supplying capacity, easy operation and convenient maintenance makes useful in the working environment with high reliability, high capacity, high integration and high performance.
Please read the manual carefully before using, and operate the chassis according to the installation procedures so as to avoid damage to the machine.

2U Chassis can hold 16 pieces of 10/100M Auto-Negotiating Single mode or Multi-mode Fiber Optic Media converters, and centralized Power supply. The design reduces the wiring and simplifies the structure, and makes it convenient to manage and maintain.
The chassis supports Hot insert-and plug, Optional Single or Dual power supply. Dual power supply ensures the uninterrupted operation of the system. When one power supply has fault, the other one can work independently to make sure the stable operation. And no need to stop the Rack operation when maintaining and replacing power supply, just pull out the power module at work to repair. It's more convenient and effective, and can afford high dependability for network system.

Packing list

Please check the following items in the package before installing the transceiver.

Rack with cards	1set
Power Cable	1pcs
User manual	1pcs

Installation

- ✓ Unpack the consignment and please check the devices with packing list
- ✓ Converter modules are installed in the rack. Check if all the screws are secured
- ✓ Install the chassis into a standard cabinet, and then insert the fiber media converter cards into the chassis
- ✓ Empty slots are filled with blanking plates.
- ✓ Insert the RJ45 twisted pair in the Ethernet port of converter and insert the Fiber cable in the Fiber port of the Converter cards.
- ✓ Insert one end of the power cord into the electrical source set on the back of the chassis, and the other end into the AC power of 220V (for the -48V one, insert the other end into the DC power of 48V)
- ✓ Turn ON the Power button on the back of the chassis
- ✓ If the power supply indicator is on, represent the power supply is normal and the chassis begins to work
- ✓ Check the Power indicator of the inserted Media converter, bright means power supply is normal, otherwise need to check whether the Cable is inserted rightly and the Power supply is normal
- ✓ The rest should be operated the same as fiber optic media converter does.

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Technical parameters:

Inserting slots	: 16
Power input	: AC 220V, DC 48V (optional)
DC output	: DC+5V
Ripple	: <=20mv
Power protection	: Over-voltage protection, Over-current protection
Working temperature	: -10 to 60°C
Relative humidity	: 5% - 95% (non-condensing)
Outer dimensions	: 485 x 230 x 90mm (L x W x H), 19" 2U high

Note:

- Dual power supply must to be used at the same time to ensure long-term effective work.
- If Fiber & Ethernet is not connected, then Cards Restarted automatic -this is normal.

LED Indications

LED Name	Description
POW	Power is On
FRX	On : Fiber link normal
	Blink : Processing Ethernet data
TRX	On : Ethernet link normal
	Blink : Transmitting Ethernet data
10/100M	Working mode 100M
	Working mode 10M
FPL	On : Fiber signal is detected
	Off : No fiber signal is detected
TPL	On : Ethernet working mode is Full-duplex
	Off : Ethernet working mode is Half-duplex

DIP Details

SW1 : TP_Force_Ethernet force/Auto-sensing mode

On	Enable SW2 SW3 setting, Ethernet working mode depends on SW2 SW3 setting	Default
Off	Disable SW2 SW3 setting, Ethernet 10/100M. Full duplex/half duplex auto-sensing	Off

SW2 : Speed_Ethernet rate

On	Ethernet force 10M	Default
Off	Ethernet force 100M	Off

SW3 : Duplex_Ethernet full duplex or half duplex

On	Ethernet force full duplex	Default
Off	Ethernet force half duplex	Off

SW4 : FX Full_Fiber full duplex or half duplex

On	Fiber force full duplex	Default
Off	Fiber force half duplex	Off

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SW5 : LFP_Link-loss detect

On	Enable	Default
Off	Disable	Off

SW8 : X-EN_Support IEEE 802.3X

On	Not support	Default
Off	Support	Off

SW6 7 : D_Wire/F_FWD

D_Wire	F_FWD	Function	Description
Off	Off	Store-and-Forward	Default working mode
Off	On	Cut-through	Decide if store and forward the first 64Kbyte of the received data packet. Ethernet force 100M
On	Off	Straight-through	Forward the received data packet without storage Ethernet force 100M. The shortest packet delay in this mode
On	On	Auto-sensing	Auto-changing forwarding mode by Ethernet and fiber rate

Fault and Maintenance of Power Supplies

- In case of Power supply issues POWER LED Lamps of chassis will go Red from Green. When the problems have been rectified, the LED Lamps will be back to normal
- If the fuse has blown, or the Power supply is damaged, the POWER LED will be OFF, and the Fans will not work. The Fuse is under the plug, you can pull it out for checking or changing when necessary
- When the Fans of chassis are defective, POWER LED Lamps will be normal but the Fans will not work. If this happens, the Power supply must be changed for new ones.
- If the Power supply of chassis is normal, but the LED Lamps of converters are off, there might be a problem with the connection between the Backplane of chassis and the Power supply. Stop the Power pull out the power adapter for checking and reinsert.

Fault and Maintenance of Media Converter PCB's

Fault description	Cause / description	Maintenance
POWER LED is not blinking	Power plug Not connected / Not properly connected	Connect the Power plug
TRX LED is OFF	RJ45 cables not connected / not securely connected to the Copper port	Connect & secure the Ethernet cables
FRX LED is Off	There might be any fault with the Remote optical device	Check the Remote optical devices and the main fiber to see if they are working normally
	The optical Fiber connection is not connected / Faulty	Connect Fiber cable properly