RP-MC301 series

10/100Base-TX to 100Base-FX Smart Media Converter

RP-MC301 series is a versatile Fast Ethernet Media Converter that seamlessly converts between 10/100Base-T and 100Base-FX networks. With various connector options and support for both single-mode and multi-mode media, it offers a cost-effective Ethernet-fiber link for extending network connections over a fiber backbone. Its simple plug-and-play design ensures easy installation in any environment.

RP-MC301 series features a DIP switch for enhanced smart function configuration. Administrators can enable or disable the Link Fault Pass-through (LFP) and Flow-Control functions. LFP (LLCF/LLR) promptly alerts administrators to link media issues and provides efficient network monitoring solutions. LLCF and LLR immediately detect and address link losses in both the TP line and fiber link. These functions help administrators proactively manage link media problems.

RP-MC301 series can be used as a standalone unit when powered by its DC adapter or seamlessly installed in the 14 Slot, 2U rack mount media converter chassis (RP-MCR314). This flexibility allows for centralized usage in a wiring closet, providing convenience and versatility for network setups.

Features

- 10/100Mbps auto-sensed, facilitating network upgrade
- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Full-duplex and half-duplex auto-sensed
- Supporting auto-sense of MDI/MDI-X, facilitating system commissioning and installation
- LFP(Link Fault Pass-through) function
- Supporting the transmission of 100Base-FX or STM-1, compatible with other devices
- Supporting low-time lag transmission
- Supporting the transmission of extra-long packets up to 2048 bytes
- Extremely low power consumption (less than 2W), reliable and stable performance
- Options in single mode dual fiber or Multi-mode dual fiber

Specifications

Standards	• IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX/FX Fast Ethernet • IEEE802.3x Flow Control
Wavelength	• 850nm/1310nm/1550nm
Transmission distance	• Multi-mode Dual-fiber: 2 km(50/125µm or 62.5/125µm); • Single mode Dual-fiber: 20/40 km(9/125µm); • Single mode Single-fiber: 20/40 km(9/125µm); • Category-5 twisted pairs: 100m
Interface	• One RJ45 port: Connecting STP/UTP category-5 twisted pairs, EIA568A/B • One optical port: Multi-mode Dual-fiber: SC or ST (50/125µm or 62.5/125µm) Single mode Dual-fiber: SC (9/125µm)
Dip Switch	• DIP1: LFP function • DIP2: Flow Control
Conversion means	• Store and Forward mode or Cut-Through mode
Buffer space	• Built in 128Kb RAM for data buffer
Flow control	• Full duplex: flow control; • Half duplex: back pressure
LED indicators	• PWR (power supply), FX LINK/ACT (optical link action) • FDX (full duplex), TX LINK/ACT (TP cable link/action) • TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)
Power Consumption	• 2W
Power Supply	• External power adapter DC5V 2.5A
Operating Temperature	• -10~55°C
Operating Humidity	• 5% to 90% (Non-condensing)
Storage Temperature	• -40~75º C
Dimension	• 71×94 ×26 mm (W*D*H)
Certification	• FCC, CE

Ordering information

RP-MC301SC   10/100Base-TX to 100Base-FX Smart Media Converter, MM/SC-2km

RP-MC301C20   10/100Base-TX to 100Base-FX Smart Media Converter, SM/SC-20km