The Advanced Networking Technology

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RP-MC301 series

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

RP-MC301series Fast Ethernet Media Converter support conversion between 10/100Base-T and 100Base-FX network. There



are SC/ST/WDM connectors with single-mode or multi-mode media for various fiber optic applications, providing a cost-effective Ethernet-fiber link, in order to extend an Ethernet network connection over a fiber backbone. Just a simple plug-and-play that can be easily installed into any scenario.

RP-MC301 Series support DIP-Switch for enhancing smart function configuration. The DIP switch can disable or enable the LFP (link fault pass through) function, LFP function can immediately trigger the LED caution light which attract the network administrators' attention the problem of the link media and provide efficient solution to monitor the network, which can minimize the loss caused by the link problem.

The RP-MC301 series can be used as a standalone unit when powered by its DC adapter or installation into the 14 Slot, 2U rack mount media converter chassis (RP-MCR314) for use at a central wiring closet.

Features

- 10/100Mbps auto-sensed at the TP port
- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Full-duplex and half-duplex auto-sensed or DIP-Switch setting
- Supporting auto-sense of MDI/MDI-X, facilitating system commissioning and installation
- DIP-Switch supporting setting half /full-duplex of FX.
- DIP-Switch supporting 10/100Mbps store-and-forward and 100Mbps cut-through transmission.
- DIP-Switch supporting LFP(Link Fault Pass-through) function
- Supporting the transmission of 100Base-FX, compatible with other devices
- Supporting low-time lag transmission
- Supporting the transmission of extra-long packets up to1600 bytes
- Extremely low power consumption (less than 2W), reliable and stable performance

Specifications

Ethernet IEEE802.3x Flow Control Wavelength 850nm/1310nm/1550nm Transmission distance Multi-mode Dual-fiber: 20/40 km(9/125µm); Single mode Single-fiber: 20/40 km(9/125µm); Single mode Dual-fiber: 20/40 km(9/125µm); Category-5 twisted pairs: 100m One RJ45 port: Connecting STP/UTP category-5 twisted pairs, EIA568A/B Interface 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 Off(Default) On PIN-1 LFP function DISABLED LFP function ENABLED PIN-2 Store and forward conversion mode Cut-Though conversion mode PIN-3 Auto-Negotiation mode for TP port Force operate in 10Mbps PIN-4 TP port operate in 100Mbps TP port operate in 10Mbps PIN-5 Fiber port operate in Fiber port operate in Half duplex mode Note: When secting the TP opertoremode (PIN-3 ON) Store and Forward mode(default) or Cut-Through mode(DIP-Switch) Buffer space Built in 128kb RAM for data buffer Flow control Full duplex: thow control; Half duplex: back pressure PWR (power supply), FX LINK/ACT (optical link action)	Standards	•		10Base-T Ethernet, IEEE8	02.3u 100Base-TX/FX Fast	
Wavelength 850nm/1310nm/1550nm Multi-mode Dual-fiber: 2 km(50/125µm or 62.5/125µm); Single mode Dual-fiber: 20/40 km(9/125µm); Single mode Dual-fiber: 20/40 km(9/125µm); Category-5 twisted pairs: 100m Interface 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) Single mode Dual-fiber: SC (9/125µm) DiP-Switch Off(Default) PIN-1 DISABLED LFP function LFP function ENABLED Pin-2 Store and forward Cut-Though conversion mode Pin-2 <		-	Ethernet			
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Operating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C						
Storage Temperature • -40~75° C						
		_		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
RP-MC301C40	10/100Base-TX to 100Base-FX Smart Media Converter, SM/SC-40km
RP-MC301A20	10/100Base-TX to 100Base-FX Smart WDM Media Converter, SM/SC-20km,
	1310nm
RP-MC301B20	10/100Base-TX to 100Base-FX Smart WDM Media Converter, SM/SC-20km,
	1550nm