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 <ul> <li>850nm/1310nm/1550nm</li> <li>Multi-mode Dual-fiber: 2 km(50/125µm or 62.5/125µm);</li> <li>Single mode Dual-fiber: 20/40 km(9/125µm);</li> <li>Single mode Dual-fiber: 20/40 km(9/125µm);</li> <li>Category-5 twisted pairs: 100m</li> </ul> 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			
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       • One RJ45 port:         • One optical port:       Conne optical port:         Multi-mode Dual-fiber: SC or ST (50/125µm or 62.5/125µm)         • One optical port:       Multi-mode Dual-fiber: SC or ST (50/125µm or 62.5/125µm)         Single mode Dual-fiber: SC (9/125µm)       • One optical port:         Multi-mode Dual-fiber: SC (9/125µm)       • One optical port:         Dip Switch       • DIP-Switch       • Off(Default)       On         PIN-1       DISABLED       • LFP function ENABLED         PIN-2       Store and forward       Cut-Though conversion         of TP port       for TP port       for TP port         PIN-3       TP port operate in TP port operate in 100Mbps       • 10Mbps         PIN-4       TP port operate in Full       TP port operate in Half       duplex mode         PIN-5       TP port operate in Force mode (PIN-3 ON)       • Nete: When setting the TP operation	Mayalanath	•				
Transmission distance       • Single mode Dual-fiber: 20/40 km(9/125µm);         • Single mode Single-fiber: 20/40 km(9/125µm);       • Category-5 twisted pairs: 100m         • One RJ45 port:       Connecting STP/UTP category-5 twisted pairs, EIA568A/B         • One RJ45 port:       Connecting STP/UTP category-5 twisted pairs, EIA568A/B         • 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)       On         PIN-1       LFP function       LFP function ENABLED         PIN-2       Store and forward       Cut-Though conversion         PiN-3       Auto-Negotiation mode       Force operation mode         PIN-4       TP port operate in       TP port operate in         PIN-5       TP port operate in       TP port operate in         PIN-6       Fiber port operate in       Fiber port operate in         PIN-6       Fiber port operate in       Fiber port operate in         Pinet space       Built in 128kb RAM for data buffer         Flow control       • Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128kb RAM for data buffer	wavelength				or 62 E/12Eum ):	
Transmission distance <ul> <li>Single mode Single-fiber: 20/40 km(9/125µm);</li> <li>Category-5 twisted pairs: 100m</li> <li>One RJ45 port: Connecting STP/UTP category-5 twisted pairs, EIA568A/B</li> <li>One optical port: Multi-mode Dual-fiber: SC or ST (50/125µm or 62.5/125µm) Single mode Dual-fiber: SC (9/125µm)</li> </ul> <li>DIP-Switch Off(Default) On PIN-1 LFP function LFP function ENABLED PIN-2 Store and forward Cut-Though conversion mode</li> <li>PIN-3 Auto-Negotiation mode for TP port</li> <ul> <li>PIN-3 TP port operate in TP port operate in 100Mbps</li> <li>PIN-4 TP port operate in TP port operate in 10Mbps</li> <li>PIN-5 Fiber port operate in Fiber port operate in Fiber port operate in Fiber port operate in Fiber port operate in Fiber port operate in Fiber port operate in Half duplex mode</li> </ul> <li>Conversion means</li> <li>Store and Forward mode(default) or Cut-Through mode(DIP-Switch)</li> <li>Buffer space</li> <li>Store and Forward mode(default) or Cut-Through mode(DIP-Switch)</li> <li>Store and Forward mode(default) or Cut-Through mode(DIP-Switch)</li> <li>EtD indicators</li> <li>PWR (power supply), FX LINK/ACT (optical link action)</li> <li>FDX (full duplex; thw control; Half duplex; the ressure</li> <li>PWR (power supply), FX LINK/ACT (optical link action)</li> <li>FDX (full duplex; NT LINK/ACT (prical link action)</li> <li>FDX (full duplex; NT LINK/ACT (optical link action)</li> <li>FDX (full duplex; NT LINK/ACT (PC cable link/action)</li> <li>TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)</li> <li>Power Supply</li> <li>External power adapter DCSV1A</li> <li>Operating Humidity</li> <li>5% to 90% (Non-condensing)</li> <li>Storage Temperature</li> <li>-40-75° C</li>	Transmission distance					
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) of 2.5/125µm) 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 operation mode for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in 10Mbps         PIN-5       TP port operate in Fiber port operate in Fiber port operate in Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)         Conversion means       Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128kb RAM for data buffer         Flow control       Full duplex: flow control;         Half duplex: back pressure       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 DCSV1A         Oper						
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       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 operation mode for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in 100Mbps       TP port operate in duplex mode         PIN-5       TP port operate in Fiber port operate in Full duplex mode       TP port operate in Half duplex mode       Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)       Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128Kb RAM for data buffer       Full duplex: flow control;         Half duplex: back pressure       PWR (power supply), FX LINK/ACT (optical link action)         FDX (full duplex), TX LINK/ACT (Detical link action)       FX (10 (TP cable rate 100M), FX100(fiber cable rate 100M)         Power Consumption       2W       Power Supply       External power adapter DC5V1A         Operating Humidity       5% to 90% (Non-condensing)       Sto						
Interface       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)         Single mode Dual-fiber: SC (9/125µm)       DIP-Switch       Off(Default)       On         PIN-1       LFP function DISABLED       LFP function ENABLED       PIN-1         PIN-2       Store and forward conversion mode       Cut-Though conversion mode         PIN-3       for TP port       for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in 10Mbps         PIN-5       TP port operate in Full duplex mode       duplex mode         PIN-6       Fiber port operate in Full duplex mode       Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)       TP port must be operate in Force mode (PIN-3 ON)         Conversion means       Store and Forward mode(default) or Cut-Through mode(DIP-Switch)       Full duplex: flow control;         Buffer space       Built in 128Kb RAM for data buffer       Full duplex: back pressure         Flow control       Full duplex; the control;       Full duplex; back pressure         PWR (power supply), FX LINK/ACT (optical link action)       TX 100 (TP cable rate 100M), FX100(f						
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       DIP-Switch       Off(Default)       On         PIN-1       LFP function       LFP function ENABLED         PIN-2       Store and forward       Cut-Though conversion mode         PIN-3       Auto-Negotiation mode       Force operation mode for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in 400mbps         PIN-5       TP port operate in 100Mbps       Fiber port operate in Half duplex mode         PIN-6       Fiber port operate in Full duplex mode       Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)         Conversion means       • Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       • Built in 128Kb RAM for data buffer         Flow control       • Full duplex: flow control; • Half duplex: back pressure         • PWR (power supply), FX LINK/ACT (optical link action)       • FX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)         Power Consumption       • ZW         Power Supply       • External power adapter DC5V1A         Operating Humidity       • 5% to 90% (Non-condensing)	Interface	·				
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)       On         PIN-1       LFP function       LFP function ENABLED         PIN-2       Store and forward       Cut-Though conversion         Odd       Auto-Negotiation mode       Force operation mode         PIN-3       Auto-Negotiation mode       Force operation mode         PIN-4       TP port operate in       TP port operate in         PIN-5       TP port operate in Full       TP port operate in Half         duplex mode       Hild duplex mode       Half duplex mode         PIN-6       Fiber port operate in Fiber port operate in       Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)       Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)         Buffer space       Built in 128Kb RAM for data buffer       Full duplex: flow control;         Half duplex: back pressure       PWR (power supply), FX LINK/ACT (optical link action)       FDX (full duplex), TX LINK/ACT (TP cable link/action)         FDX (full duplex), TX LINK/ACT (TP cable link/action)       TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)       Power Supply </th <td colspan="5" rowspan="3"><ul> <li>One optical port: Multi-mode Dual-fiber: SC or ST (50/125µm or 62.5/125µm)</li> </ul></td>		<ul> <li>One optical port: Multi-mode Dual-fiber: SC or ST (50/125µm or 62.5/125µm)</li> </ul>				
Single mode Dual-fiber: SC (9/125µm)         DIP-Switch       Off(Default)       On         PIN-1       LFP function       LFP function ENABLED         PIN-2       Store and forward       Cut-Though conversion         onversion mode       Force operation mode       Force operation mode         PIN-3       Auto-Negotiation mode       Force operation mode         PIN-4       TP port operate in       TP port operate in         10Mbps       10Mbps       10Mbps         PIN-5       TP port operate in Full       duplex mode         PIN-6       Fiber port operate in       Fiber port operate in         Fiber port operate in Full       duplex mode       Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The       TP port must be operate in Force mode (PIN-3 ON)         Conversion means       Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128kb RAM for data buffer         Flow control       Half duplex: back pressure         PWR (power supply), FX LINK/ACT (optical link action)         FDX (full duplex), TX LINK/ACT (optical link action)         FDX (full duplex), TX LINK/ACT (optical link action)         FDX (full duplex), TX LINK/ACT (Deperate 100M)         Power Consumption       2W						
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 operation mode for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in the port operate in 100Mbps         PIN-5       TP port operate in Full duplex mode       TP port operate in Half duplex mode         PIN-6       Fiber port operate in Full duplex mode       Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)         Conversion means       Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128kb RAM for data buffer         Flow control       Full duplex: back pressure         PWR (power supply), FX LINK/ACT (optical link action)         FDX (full duplex), TX LINK/ACT (optical link action)         TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)         Power Supply       External power adapter DC5V1A         Operating Temperature       -10-55°C         Operating Humidity       5% to 90% (Non-condensing)         Storage Temperature       -40-75° C						
PIN-1       DISABLED       LFP function ENABLED         PIN-2       Store and forward conversion mode       Cut-Though conversion mode         PIN-3       Auto-Negotiation mode for TP port       Force operation mode for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in 100Mbps         PIN-5       TP port operate in Full duplex mode       TP port operate in Half duplex mode         PIN-6       Fiber port operate in Full duplex mode       Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)         Conversion means       Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128Kb RAM for data buffer         Flow control       Full duplex: flow control;         Half duplex: back pressure       PWR (power supply), FX LINK/ACT (optical link action)         FDX (full duplex), TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)         Power Supply       External power adapter DC5V1A         Operating Temperature       -10-55°C         Operating Humidity       5% to 90% (Non-condensing)         Storage Temperature       -40-75° C	Dip Switch		DIP-Switch	Off(Default)	On	
PIN-2       conversion mode       mode         PIN-3       Auto-Negotiation mode for TP port       Force operation mode for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in 10Mbps         PIN-5       TP port operate in Full duplex mode       TP port operate in Half duplex mode         PIN-6       Fiber port operate in Full duplex mode       Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)         Conversion means       Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128Kb RAM for data buffer         Flow control       Full duplex: flow control; Half duplex: back pressure         PWR (power supply), FX LINK/ACT (optical link action)       FDX (full duplex), TX LINK/ACT (TP cable link/action)         FDX (full duplex), TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)       2W         Power Supply       External power adapter DC5V1A         Operating Temperature       -10~55°C         Operating Humidity       5% to 90% (Non-condensing)         Storage Temperature       -40~75° C			PIN-1		LFP function ENABLED	
Dip Switch       Fin-3       for TP port       for TP port         PIN-4       TP port operate in 100Mbps       TP port operate in 10Mbps       TP port operate in 10Mbps         PIN-5       TP port operate in Full duplex mode       TP port operate in Full duplex mode       TP port operate in Half duplex mode         PIN-6       Fiber port operate in Full duplex mode       Fiber port operate in Half duplex mode       Fiber port operate in Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)       Image: Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space       Built in 128Kb RAM for data buffer         Flow control       Full duplex: flow control; Half duplex: back pressure         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 Supply       External power adapter DC5V1A         Operating Temperature       -10~55°C         Operating Humidity       5% to 90% (Non-condensing)         Storage Temperature       -40~75° C			PIN-2		•	
PIN-4       100Mbps       10Mbps         PIN-5       TP port operate in Full       TP port operate in Half         duplex mode       duplex mode         HN-6       Fiber port operate in         Fiber port operate in       Fiber port operate in         Half duplex mode       Half duplex mode         Note: When setting the TP operation mode (PIN-4 or/and PIN-5), The         TP port must be operate in Force mode (PIN-3 ON)         Conversion means         Store and Forward mode(default) or Cut-Through mode(DIP-Switch)         Buffer space         Flow control         Flow control         PWR (power supply), FX LINK/ACT (optical link action)         FDX (full duplex; back pressure         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 Supply       External power adapter DC5V1A         Operating Temperature       -10~55°C         Operating Humidity       5% to 90% (Non-condensing)         Storage Temperature       -40~75° C			PIN-3	-	·	
PIN-5duplex modeduplex modePIN-6Fiber port operate in Full duplex modeFiber port operate in Half duplex modeNote: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)Conversion means• Store and Forward mode(default) or Cut-Through mode(DIP-Switch)Buffer space• Built in 128Kb RAM for data bufferFlow control• Full duplex: flow control; • Half duplex: back pressurePWR (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• 2WPower Supply• External power adapter DC5V1AOperating Temperature• -10~55°COperating Humidity• 5% to 90% (Non-condensing)Storage Temperature• -40~75° C			PIN-4	· · ·		
PIN-6Full duplex modeHalf duplex modeNote: When setting the TP operation mode (PIN-4 or/and PIN-5), The TP port must be operate in Force mode (PIN-3 ON)Conversion means• Store and Forward mode(default) or Cut-Through mode(DIP-Switch)Buffer space• Built in 128Kb RAM for data bufferFlow control• Full duplex: flow control; • Half duplex: back pressurePWR (power supply), FX LINK/ACT (optical link action) • FDX (full duplex), TX LINK/ACT (optical link/action) • TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)Power Consumption • 2W• External power adapter DC5V1AOperating Temperature • -10~55°C• -40~75° C			PIN-5			
TP port must be operate in Force mode (PIN-3 ON)Conversion meansStore and Forward mode(default) or Cut-Through mode(DIP-Switch)Buffer spaceBuilt in 128Kb RAM for data bufferFlow controlFull duplex: flow control; Half duplex: back pressureLED indicatorsPWR (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 Consumption2WPower SupplyExternal power adapter DC5V1AOperating Temperature-10~55°COperating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C			PIN-6			
Conversion meansmode(DIP-Switch)Buffer spaceBuilt in 128Kb RAM for data bufferFlow controlFull duplex: flow control; • Half duplex: back pressureLED indicatorsPWR (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 Consumption2W • External power adapter DC5V1A • Operating TemperatureOperating Temperature-10~55°C • 5% to 90% (Non-condensing)Storage Temperature-40~75° C		- · · · · ·				
Buffer spaceBuilt in 128Kb RAM for data bufferFlow controlFull duplex: flow control; • Half duplex: back pressureLED indicatorsPWR (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 Consumption2WPower SupplyExternal power adapter DC5V1AOperating Temperature-10~55°COperating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C	Conversion means	•	• Store and Forward mode(default) or Cut-Through			
Flow controlFull duplex: flow control; Half duplex: back pressureLED indicatorsPWR (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 Consumption2WPower Supply• External power adapter DC5V1AOperating Temperature• -10~55°COperating Humidity• 5% to 90% (Non-condensing)Storage Temperature• -40~75° C						
Flow controlHalf duplex: back pressureLED indicatorsPWR (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 Consumption2WPower SupplyExternal power adapter DC5V1AOperating Temperature-10~55°COperating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C	Buffer space					
<ul> <li>Half duplex: back pressure</li> <li>PWR (power supply), FX LINK/ACT (optical link action)</li> <li>FDX (full duplex), TX LINK/ACT (TP cable link/action)</li> <li>TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)</li> <li>Power Consumption</li> <li>2W</li> <li>Power Supply</li> <li>External power adapter DC5V1A</li> <li>Operating Temperature</li> <li>-10~55°C</li> <li>Operating Humidity</li> <li>5% to 90% (Non-condensing)</li> <li>Storage Temperature</li> </ul>	Flow control					
LED indicatorsFDX (full duplex), TX LINK/ACT (TP cable link/action) TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)Power Consumption2WPower SupplyExternal power adapter DC5V1AOperating Temperature-10~55°COperating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C		_	•	•	ntion link ontion)	
TX 100 (TP cable rate 100M), FX100(fiber cable rate 100M)Power Consumption2WPower SupplyExternal power adapter DC5V1AOperating Temperature-10~55°COperating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C	LED indicators					
Power Consumption2WPower SupplyExternal power adapter DC5V1AOperating Temperature-10~55°COperating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C						
Power Supply• External power adapter DC5V1AOperating Temperature• -10~55°COperating Humidity• 5% to 90% (Non-condensing)Storage Temperature• -40~75° C	Power Consumption	•				
Operating Temperature-10~55°COperating Humidity5% to 90% (Non-condensing)Storage Temperature-40~75° C						
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