RP-MC311 series

10/100/1000 Base-TX to 1000Base-FX Smart Gigabit Media Converter

RP-MC311 series Gigabit Ethernet Media Converter support conversion between 10/100/1000Base-T and 1000Base-LX/SX network. Equipped with SC/SFP/WDM connectors, it supports both single-mode and multi-mode media for a variety of fiber optic applications. This cost-effective solution extends Ethernet network connections over a fiber backbone, providing a reliable Ethernet-fiber link. Installation is effortless, thanks to its plug-and-play design that seamlessly integrates into any scenario.

Installation is a breeze with its plug-and-play design, making it easy to integrate into any network scenario.

RP-MC311 series also provides user-friendly configuration options through its DIP switch, allowing users to set the operation mode of the media converter. The DIP switch includes the option to enable or disable the Link Fault Pass-through (LFP) function. With LFP enabled, any issues with the link media can be quickly identified as the LED caution light is triggered, drawing the attention of network administrators. This proactive approach ensures efficient network monitoring and minimizes losses caused by link problems.

For convenient deployment, the RP-MC311 series can be used as a standalone unit powered by its DC adapter. Alternatively, it can be installed into the 14 Slot, 2U rack mount media converter chassis (RP-MCR314), ideal for central wiring closets and efficient network management. The flexibility of the RP-MC311 series makes it a reliable solution for extending and optimizing Ethernet connections over fiber in various networking environments.

Features

- Supporting inter-conversion between adaptive 10Base-T/100Base-TX/1000Base-T with 1000Base-SX/LX
- Supporting full-duplex and half-duplex and its auto-sensed
- Supporting auto-sensation of MDI/MDI-X, facilitating system commissioning and installation
- Supporting the transmission of extra-long VLAN packets
- Supporting Quality of Service (QoS) and ensuring the transmission of VoIP packets
- High compatibility capacity: compatible with the network card, hub, switch and repeater of other brands
- Options in single mode dual fiber, multi-mode dual fiber, and single mode in single fiber;
- Store-and-Forward mechanism

Specifications

Standards	• IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet, • IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-SX/LX Gigabit Ethernet • IEEE802.3x Flow Control
Interface	• One RJ45 port: 10/100/1000Mbps Gigabit Ethernet Connecting with STP/UTP category-5 twisted pairs, EIA568A/B • One optical 1000FX port: Multi-mode Dual-fiber: SC/LC(SFP) (50, 62.5/125µm) Single mode Dual-fiber: SC/FC/LC(SFP) (9/125µm) Single mode Single-fiber: SC/ST/FC (9/125µm)
Wavelength	• 850nm/1310nm/1550nm
Transmission distance	• Multi-mode Dual-fiber: 550m (50/125µm) • Single mode Dual-fiber: 20km(9/125µm) • Single mode single-fiber: 20km(9/125µm) • Category-5 twisted pairs: 100m
Jumbo frame	• 9K
Dip Switch	• DIP1: LFP function • DIP2: Flow Control
LED indicators	• POWER (power supply), FX LINK (optical link action) • TP LINK1000 (TP cable rate1000M), TP LINK100 (TP cable rate 100M) • TP ACT (TP cable packet forwarding action), FDX (TP full duplex operation)
Power Consumption	• Max. 5 Watts
Power Supply	• External power adapter DC5V 1A
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-MC311SC	10/100/1000 Base-TX to 1000Base-SX Smart Gigabit Media Converter, MM/SC-550m
RP-MC311C20	10/100/1000Base-TX to 1000Base-LX Smart Gigabit Media Converter, SM/SC-20km
RP-MC311FP	10/100/1000Base-TX to 1000Base-X SFP Smart Gigabit Media Converter