

Plastic Fiber vs. Twisted Pair SMI / OptoLock to RJ45 10/100BaseTX Auto-Negotiable Fast Ethernet Media Converter

FEATURES

- Cost-effective RJ45 UTP to SMI or OptoLock™ plastic fiber media conversion
- Comply with IEEE 802.3, IEEE 802.3u and Fast Ethernet
- Extend network span up to 50 m on plastic optical fiber (POF)
- Diagnostic LEDs for troubleshooting and maintenance
- Auto MDI/MDI-X on UTP port
- 10/100 Mbps auto-negotiation on UTP
- Far end fault and link fault pass through
- Powered by 5V AC/DC power adaptor or USB port
- Plug and play
- RoHS Compliant

OptoLock™ is a trademark of Firecomms.

MMC-P100FX-AN-G KMC-P100FX-AN-G1 KMC-P100FX-AN-G2



The MMC-P100FX-AN-G is LAN media converters that convert the copper UTP media to the plastic optical fiber (POF) media with SMI interface while KMC-P100FX-AN-G is with OptoLock™ connector. The equipped auto-negotiation function enables the media converters to operate at 10 or 100 Mbps copper Fast Ethernet and the 100 Mbps fiber. This conversion complies with IEEE802.3 and IEEE802.3u standards with two different network connection media, 10/100Base-TX and 1000 um POF. The data transmission is realized by switching and store-and-forward technologies.

Link fault pass through capability is built inside the media converters. Seven LEDs on the front panel therefore display the media converter status and the far end fault conditions for network diagnosis purpose.

These media converters can be used as a stand-alone device or be directly mounted into MCC-16, which is a powered 19" 3U rack mount chassis for Radiantech's series media converters. Sixteen media converter slots can be accommodated in this chassis.

MMC-P100FX-AN-G and KMC-P100FX-AN-G are RoHS compliant products.

Media Converter Specifications

Copper

Standard: IEEE 802.3u
 Connectors: RJ45
 Impedance: 100 Ohm

Fiber Optic

Wavelength/Source: 650 nm RCLED
 Connector: SMI or OptoLock™
 Optical Budget: 15 dB typ.
 Sensitivity: -22 dBm typ.
 Maximum Distance: 50 m over 1000 um POF

Required Power Supply

Output Voltage: 5 VDC
 Output Current: 500 mA max.
 Polarity: Inner pin positive
 Size of Connector: ID = 1.35 mm, OD = 3.5 mm, Length of pin (min.) = 10 mm

Accessories

100 to 240 VAC, 50 to 60 Hz to 5VDC 2 A power adaptor
 USB to DC jack copper cable

Physical and Environmental Specifications

Dimensions: (W) 20 mm x (H) 84mm x (D) 60 mm
 Weight: 170 g (0.374 lbs.) per unit
 Operating Temp: 0° C - 60° C for media converter
 0° C - 42° C for AC/DC adaptor
 Storage Temp: -20° C - 70° C (-13° F - 158° F)

Agency Approvals

This media converter conforms to the following standards:
 Electromagnetic Emissions: FCC Part 15, Class A, EN 55022, Class A

Ordering Information

MMC-P100FX-AN-G	SMI to RJ45, POF 650nm 100M fast Ethernet Media Converter, RoHS compliant
KMC-P100FX-AN-G1	1.5 mm OptoLock™ to RJ45, POF 650nm 100M fast Ethernet Media Converter, RoHS compliant
KMC-P100FX-AN-G2	2.2 mm OptoLock™ to RJ45, POF 650nm 100M fast Ethernet Media Converter, RoHS compliant

Important Notice

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability

This product will be free from defects in material and manufacture for a period of one year from the date of purchase.

WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

If this product is defective within the warranty period stated above, your exclusive remedy shall be, at RI's option, to replace or repair the RI product or refund the purchase price of the RI product. Except where prohibited by law, RI will not be liable for any loss or damage arising from this RI product whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.



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