

**10/100M LFP Media Converter**  
**1\*SC optical port & 1\*RJ45 port**  
**DK-MC0135-20A-LFP**  
**DK-MC0153-20B-LFP**



The DK-MC0135 series media converter is a new product used for optical transmission via high-speed Ethernet. It is capable of switching between twisted pair and optical and relaying across 10/100 Base-TX and 100 Base-Fx network segments, meeting long-distance, high-speed and high-broadband fast Ethernet workgroup users' needs, achieving high-speed remote interconnection for up to 120 km's relay-free computer data network. With steady and reliable performance, design in accordance with Ethernet standard and lightning protection, it is particularly applicable to a wide range of fields requiring a variety of broadband data network and high-reliability data transmission or dedicated IP data transfer network, such as telecommunication, cable television, railway, military, finance and securities, customs, civil aviation, shipping, power, water conservancy and oilfield etc, and is an ideal type of facility to build broadband campus network, cable TV and intelligent broadband FTTB/FTTH networks.

### **Main Features**

- In accordance with Ethernet standards IEEE802.3, 10/100Base-TX and 100Base-FX
- Supported ports: Fiber can be used with SC, FC, ST, SFP ports; twisted pair uses RJ45 ports.
- The fiber optic core supports single fiber, dual fiber, and the working mode supports single mode and

multi mode.

- Auto-adaptation rate and full/half-duplex mode supported at twisted pair port
- Auto MDI/MDIX supported without need of cable selection
- Up to 6 LEDs for status indication of optical power port and UTP port
- External and built-in DC power supplies provided
- Support for low-delay time pure data transmission and full/half-duplex flow control.
- Built-in DIP switch, supports LFP (Fiber Link Fault Pass-through) function.
- Support for 6K giant frames

## Product Parameter

Number of Network Ports	1 channel
Number of Optical Ports	1 channel
RJ45 Transmission Rate	10/100 Mbit/s
RJ45 Transmission Mode	10/100M adaptive with support for automatic inversion of MDI/MDIX
Optical Port Transmission Rate	100Mbit/s
Operating Voltage	AC 220V or DC +5V
Overall Power	<3W
Converter Support Features	Supports LFP function
LFP Function Description	Under the premise that the single-fiber converter supports the LFP function, when any end's optical port or RJ45 port fails, both the opposite end and the local end will only retain the power light. When the power port of one end fails, the other end will also only keep the power light. The response time is less than 15 seconds. Once the fault is cleared, within the response time, the lights of the converter will light up normally.
Optical Specifications	Optical Port: SC, ST or FC (Optional) Multi-Mode:50/125, 62.5/125um Single-Mode: 8.3/125, 8.7/125um, 8/125,10/125um Wavelength: Single fiber 20KM(Tx1310nm/Rx1550nm), 40KM(Tx1310nm/Rx1550nm),60KM(Tx1490nm/Rx1550nm), 80KM(Tx1490nm/Rx1550nm),100KM(Tx1490nm/Rx1550nm), 120KM(Tx1490nm/Rx1550nm)
Data Channel	IEEE802.3x and collision base backpressure supported Working Mode: Full/half duplex supported Transmission Rate: 100Mbit/s with error rate of zero
Transmission Distance	Options are available for 2KM, 20KM, 40KM, 60KM, 80KM, 100KM, 120KM according to actual needs.

LFP Switch	To prevent inadvertent contact with the DIP switch during installation, this product features an internal DIP switch. If you need to turn off the LFP, please remove the shell to toggle the switch or contact the manufacturer.
Operating Voltage	AC 220V/ DC +5V
Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +85°C
Humidity	5% to 90%
MTBF	> 100,000 hours
Product Size	95*71*26.5mm

### Order information

Model	Description
DK-MC0135-20A-LFP DK-MC0153-20B-LFP	1*100 Base-X, 1*10/100 Base-T, 1310/1550nm, 20KM, LFP