10/100/1000M Dual Fiber Media Converter
DK-MC-GS-20

The DPTEK DK-MC-GS-20 10/100/1000M adaptive fast Ethernet optical 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 10/100Base-TX/1000Base-TX and 1000Base-FX network segments, meeting long-distance, high-speed and high-broadband fast Ethernet workgroup users' needs, achieving high-speed remote interconnection for up to 100 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/1000Base-TX and 1000Base-FX

Supported Ports: SC for optical fiber; RJ45 for twisted pair

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

Up to 1024 MAC addresses supported

512 kb data storage integrated, and 802.1X original MAC address authentication supported

Conflicting frames detection in half-duplex and flow control in full duplex supported

Product Parameter

Technical Parameters	
Number of Network Ports	1 channel
Number of Optical Ports	1 channel
NIC Transmission Rate	10/100/1000Mbit/s
NIC Transmission Mode	10/100/1000M adaptive with support for automatic inversion of MDI/MDIX
Transmission Range (km)	0-20KM
Optical Port Transmission Rate	1000Mbit/s
Operating Temperature:	-20℃ to +70℃
Operating Voltage	AC 220V or DC +5V
Overall Power	<3W
Network Ports	RJ45 port
Optical Specifications	Optical Port: SC, FC, ST (Optional) Multi-Mode: 50/125, 62.5/125um Single-Mode: 8.3/125, 8.7/125um, 8/125,10/125um Wavelength: Single-Mode: 1310/1550nm
Data Channel	IEEE802.3x and collision base backpressure supported Working Mode: Full/half duplex supported Transmission Rate: 1000Mbit/s with error rate of zero

Order information

Model	Description
DK-MC-GS-20	1*1000 Base-FX SC, 1*10/100/1000 Base-T, dual fiber single mode 1310nm, 20KM
DK-MC-GM-05	1*1000 Base-FX SC, 1*10/100/1000 Base-T, dual fiber multi mode 850nm, 0.5KM