

Model: DMC-1E1F-SM-20 / DMC-1E1F-MM-20
Series: DIANA



10/100M Dual Fiber Media Converter



Overview:

Diana DMC-1E1F-SM-20 / DMC-1E1F-MM-20 is an unmanaged media converter, which provides economic solutions for media conversion between fiber and copper Ethernet. It provides 10/100 Mbps SC Port for optical fiber cables connection and 1 ports 10/100 RJ45 for twisted pair UTP cable connection.

The maximum extension is up to 20Km@single mode fiber and 2km@multimode over fiber.

Key Features:

- ◆ Using WDM wavelength 1310nm and 1550nm to achieve single fiber bi-directional transmission.
- ◆ Broadcast filtering feature/Address auto learning/ Automatic update feature/Store and forward operating mechanism.
- ◆ Cache is 512KB, MAC address table is 4KB
- ◆ Ethernet 10Base-T or 100Base-Tx to 100Base-Fx fiber media converter.
- ◆ Support IEEE 802.3u, IEEE 802.3x, IEEE 802.1d
- ◆ Supports full-duplex or half-duplex back-pressure flow control work, and with auto -negotiation capability.
- ◆ TP port supports 100Mbps, 10Mbps, two TP port could match different rate.
- ◆ Provide remote link loss diagnostics,TP port and FX port link connection diagnostic, dynamic data transmission, full / half duplex, rate indicator.
- ◆ Provide single RJ-45 port, and support automatically cross-recognition,
- ◆ FX port with good feature, strong compatibility and high reliability.
- ◆ 3 years warranty.

Specifications:

Technical Specifications	
Product Description	10/100M Dual Fiber Media Converter
Model	Diana: DMC-1E1F-SM-20, Diana: DMC-1E1F-MM-2
Description	10/100M 1 UTP Port Dual Fiber Ethernet Media Converter
Ports	1 10/100Mbps copper RJ45 Port + 1 10/100Mbps Fiber SC Port
Transmission Distance	20Km@single mode fiber, 2km@multimode fiber(DMC-1E1F-MM-20)
Optical Fiber	Single Mode or Multi-mode Dual Fiber,
Fiber Bandwidth	155Mbps
Ethernet Bandwidth	10/100Mbps
Network Media	10BASE-T: Cat.3, Cat.4, Cat.5 UTP Cable 100BASE-TX/1000BASE-TX : super cat.5 UTP Cable
Packet Buffer Memory	1Mbit
Standards	IEEE 802.3i, IEEE 802.3u, IEEE 802.3x Flow Control, IEEE 802.1af DTE Power via MDI
Forward Mode	Store and Forward
Environment	Operating Temperature: -20°C~+70°C Storage Temperature: -45°C~+95°C Relative Humidity: 0~95% (non-condensing)
EMI Certificates	CE & RoHS
Total Power	2.5W (Input: DC5V 1000mA)
Power	AC100~ 240V,DC5V 1A
Dimensions	11×7×2.5cm (L x W x H)
MTBF	≥10.0000h

Applications:

- ◆ Harsh industrial environment or higher requirements for lightning protection.
- ◆ Urban Intelligent Traffic Monitoring System (ITS), Safe City.
- ◆ Highway monitoring system, electronic road monitoring, network cameras.
- ◆ Large industrial enterprise security monitoring systems, network multi-function system.
- ◆ Remote multimedia teaching / campus monitoring, remote network video conference system.



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