ME51 Series

10/100BaseT(X) to 100BaseFX Fiber Converter

Features

- Supports 10/100BaseT(X) auto-negotiation
- Supports Link Fault Pass-Through
- Powered by an external power adaptor or USB port on hosting device
- TP port's connection speed and half/full mode are IP Switch selectable
- Fiber connection's half/full duplex mode is DIP Switch selectable

CE FC

Link Fault Pass-Through

The Link Fault Pass-Through feature overcomes a problem encountered when using traditional media converters. The problem is this. When one side of the link fails, the other side continues transmitting packets, and then waits for a response that never arrives from the disconnected side.

What ME51 does is force the link to shut down as soon as it notices that the other link has failed, giving the application software a chance to react to the situation.

Power from Adaptor or USB Port

ME51 is powered by an external power adaptor or USB port on the hosting device (e.g., PC). The option of using USB port

power, which is unique to ME51 for products of this type, offers greater flexibility when deploying ME51 in the field.

Specifications

Interface

RJ45 ports: 10/100BaseT(X)

Fiber ports: 100BaseFX (SC, ST connectors available)

LED Indicators: Power, TP: LNK/ACT, 100M, FX: LNK/ACT, FDX/COL

Technology

Standards: IEEE802.3/802.3 μ/802.3x

Cable Limitations

TP Cable Limitations: Cat. 5 & up to 100 m

Fiber Cable Limitations: Multi mode 2 km, Single mode 20 km

Wavelength: 1310 nm

Min. TX Output: -19 dBm (ME51-M), -15 dBm (ME51-S)

Max. TX Output: -14 dBm (ME51-M), -8 dBm (ME51-S)

Sensitivity: -30 dBm (ME51-M), -31 dBm (ME51-S)

Power

Input Voltage: 5 VDC adaptor or USB port

Input Current:

External Power Adaptor: 1A @ 5 VDC

USB Interface Power: 0.5A @ 5 VDC

Mechanical

Dimensions (W x D x H): 94 x 70.3 x 26.2 mm

Environmental

Operating Temperature: 0 to 50°C

Ambient Relative Humidity:

5 to 95% (non-condensing)

Regulatory Approvals CE, FCC

Ordering Information

ME51-M-SC: 10/100BaseT(X) to 100BaseFX Media Converter; multi mode, SC connector

ME51-M-ST: 10/100BaseT(X) to 100BaseFX Media Converter; multi mode, ST connector

ME51-S-SC: 10/100BaseT(X) to 100BaseFX Media Converter; single mode, SC connector

* All items include User's Manual & Power Adaptor