tde®
trans data elektronik GmbH

net. work. solution. made in Germany

ISO 9001
TL 9000
ISO 14001

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB

Direct Attach Cables / Active Optical Cables

A simple to install, cost-effective and interoperable solution

Often used for data center short-reach interconnects, Direct Attach, Active Copper and Active Optical Cables are an indispensable part of any network.

Terminated with transceiver-style connectors, they are designed to be used in the same ports as a typical SFP+ or QSFP transceiver, with no need for adapters or converters. Our DAC and AOC cables offer compatibility with a huge range of vendors, enabling the connectivity you need within the Top of Rack and End of Row environments.

• 10G, 25G, 40G & 100G product solutions
• Seamless interoperability with network equipment
• Multi-code options enabling different OEM vendors at each end of the cable
• 4x breakout cables, 40G QSFP+ to 4x 10G SFP and 100G QSFP28 to 4x 25G SFP28
• Fast Delivery, Custom solutions
• Compatible with Over 90 Systems
• Savings of up to 70%

i

tde® trans data elektronik GmbH

Headquarter address:
Lingener Str. 2
D-49626 Bippen/Ohrte
Tel.: +49 5435 9511 0
Fax.: +49 5435 9511 32

Sales office address:
Prinz-Friedrich-Karl-Str. 46
D-44135 Dortmund
Tel.: +49 231 8805 61 13
Fax.: +49 231 8805 61 15

info@tde.de | www.tde.de

tde ®

trans data elektronik GmbH

net. work. solution. made in Germany

ISO 9001
TL 9000
ISO 14001

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB

The M/E-ISW Series is a hardened Fast Ethernet Mini media converter that provides a cost effective, plug-and-play media conversion between 10/100Base-TX ports and 100Base-FX ports for hardened or outdoor 10/100 environments. With its supported operating temperature range of -40°C to 75°C, the Mini offers a space saving alternative for converting copper to fiber in extreme environments.

Features

- Unit and Port LEDs provide quick status
- Auto-Negotiation
- Fixed Full-Duplex on fiber
- Auto-MDI/MDIX
- Link Pass Through
- Active Link Pass Through on SFP version
- Automatic Link Restoration
- Far-End-Fault (FEF)
- DC and AC power inputs via terminal block

- If the voltage of your power source doesn't match the device input power, external power supplies are available

- Includes barrel connector pig-tail cable
- Overload Current Protection
- Reverse Polarity Protection
- Easily integrate fiber into industrial, hardened, or outdoor locations to reach devices at the edge of the network
- Small mechanical size allows use in enclosures with space constraints
- No configuration required
- Available with LC, ST or SC fiber interfaces and available for multimode or single mode fiber
- Multiple mounting options:

  - DIN Rail clip and velcro included
  - Wall mount bracket sold separately

Technical Data

Standards

tde®
trans data elektronik GmbH

net. work. solution. made in Germany

ISO 9001
TL 9000
ISO 14001

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB

- IEEE 802.3

Max Frame Size

- 2,046 bytes (for all excpet SFP version)
- 10,240 bytes (for SFP version)

Status LEDs

- PWR (Power): (below RJ-45)
- FX-Link/Act (Fiber Link/Activity): (Upper Left on RJ-45)
- ON = Link; Flashing = Activity
- TX-Link/Act (Copper Link/Activity): (Upper Right on RJ-45)
- ON = Link; Flashing = Activity

Dimensions

- Width: 1.8" [46 mm]
- Depth: 3.3" [85 mm]
- Height: 0.85" [22 mm]

Power Consumption

- 2.5 Watts

Power Input

- 2-pin Terminal Block
- Unit accepts 12-48 VDC and 24-36 VAC ± 10%
- Overload Current Protection
- Reverse Polarity Protection

Ingress Protection

- IP20

Environment

10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB

- Operating: -40°C to 75°C
- Storage: -40°C to 85°C
- Humidity: 5% to 95% (non-condensing)
- Altitude: 0 – 10,000 ft.

Weight

- 2 lbs. [0.90 kg]

MTBF

- 41,680 hours (MIL-HDBK-217F)
- 114,580 hours (Bellcore7 V5.0)

Certifications

- FCC Class A, CISPR22/EN55022 Class A, EN55024, CE Mark

Warranty

- Lifetime

Product variants & accessories

Art.-No.	Description
M/E-ISW-FX-02(MMLC)	10/100Base-TX (RJ-45) [100 m/328 ft.] to 100Base-FX 1300nm multimode (LC) [2 km/1.2 mi.] Link Budget: 11.0 dB