

XDACBL10MA-PRO

Intel® XDACBL10MA Compatible TAA 10GBase-CU SFP+ to SFP+ Direct Attach Cable (Active Twinax, 10m, 28AWG)

Features

- Up to 10Gbps bi-directional data links
- Industry Standard small form pluggable
- Dual SFP Connectors
- Single Power Supply 3.3V
- Operating Temperature: 0 to 70 Celsius
- Hot Pluggable
- RoHS Compliant and Lead-Free



Applications:

- 10G Ethernet
- 10G Fibre Channel

Product Description

This is a Intel® XDACBL10MA Compatible 10GBase-CU SFP+ to SFP+ direct attach cable that operates over active copper with a maximum reach of 10m. It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. We stand behind the quality of our products and proudly offer a limited lifetime warranty. This cable is TAA (Trade Agreements Act) compliant and is built to comply with MSA (Multi-Source Agreement) standards.

Proline's transceivers are RoHS compliant and lead-free.

TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products.



General Specifications

| Parameter | Symbol | Min | Typ. | Max. | Unit | Notes |
|----------------------------|------------------|------|---------|-------------------|-------|-------|
| Data Rate | DR | | 10.3125 | | Gbps | 1 |
| Bit Error Rate | BER | | | 10 ⁻¹² | | |
| Operating Case Temperature | T _c | 0 | | 70 | °C | 2 |
| Storage Temperature | T _{stg} | -40 | | 85 | °C | 3 |
| Input Voltage | V _{cc} | 3.14 | 3.3 | 3.46 | V | 4 |
| Supply Current | I _{cc} | | 100 | 300 | mA | 4 |
| Cable Impedance | Z | 90 | 100 | 110 | Ω | |
| Product Weight | GD | | 88 | | g/PCS | |
| Cable Weight | GC | | 42 | | G/M | |
| Dust Cap Weight | GS | | 0.80 | | g/PCS | |
| Wire Gauge | | | 28 | | AWG | |
| Tolerance Range | | | 8 | | ±cm | |

Notes:

1. IEEE 802.3ae compatible.
2. Case temperature.
3. Ambient temperature.
4. For electrical power interface.

Pin Descriptions

| Pin | Symbol | Name/Description | Notes |
|-----|------------|---|-------|
| 1 | VeeT | Transmitter ground. Common with receiver ground. | 1 |
| 2 | Tx_Fault | Transmitter Fault. | |
| 3 | Tx_Disable | Transmitter Disable. Laser output disabled on "high" or "open." | 2 |
| 4 | SDA | Data line for Serial ID. | 3 |
| 5 | SCL | Clock line for Serial ID. | 3 |
| 6 | MOD_ABS | Module absent. Grounded within the module. | 3 |
| 7 | RS0 | No connection required. | |
| 8 | LOS | Loss of Signal. Logic 0 indicated normal operation. | 4 |
| 9 | RS1 | No connection required. | |
| 10 | VeeR | Receiver ground. Common with transmitter ground. | 1 |
| 11 | VeeR | Receiver ground. Common with transmitter ground. | 1 |
| 12 | RD- | Receiver Inverted DATA out. AC coupled. | |
| 13 | RD+ | Receiver NonInverted DATA out. AC coupled. | |
| 14 | VeeR | Receiver ground. Common with transmitter ground. | 1 |
| 15 | VccR | Receiver power supply. | |
| 16 | VccT | Transmitter power supply. | |
| 17 | VeeT | Transmitter ground. Common with receiver ground. | 1 |
| 18 | TD+ | Transmitter Non-Inverted DATA in. AC coupled. | |
| 19 | TD- | Transmitter Inverted DATA in. AC coupled. | |
| 20 | VeeT | Transmitter ground. Common with receiver ground. | 1 |

Notes:

1. Circuit ground is isolated from chassis ground.
2. Disabled: Tdis>2V or open, Enabled Tdis<0.8V.
3. Should be pulled up with 4.7kΩ-10kΩ on host board to a voltage between 2V and 3.6V.
4. LOS is open collector output.

Electrical Pad Layout



Block Diagram



Mechanical Specifications



About Us:

Proline Options is one of North America's leading providers of transceivers and high speed cabling. With a reputation for quality, tested products that cover the connectivity spectrum, Proline Options has a solution for you regardless of the specification.

At Proline Options, every product is tested in its intended application - never batch or spec tested only. We run bandwidth, distance and IOS network tests. We have documented an impressive 0.03% failure rate over the last 10 years. To continue this rate of success we invest millions annually in our own on-site testing lab.



Tel: 855.933.3223

Email: sales@prolineoptions.com

Email: techsupport@prolineoptions.com

Web: <https://www.prolineoptions.com>