10/100/1000Base-T (RJ-45) [100 m] to 1000Base-LX 1310nm single mode (SC)[10 km/6.2 mi.] Link Budget: 10.5 dB

\*\*Lantronix / Transition Networks

\*\*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%

\*\*Converters and Device Servers

\*\*\*Features

• Copper and Fiber Auto-Negotiation
• Switch Selectable Speeds
• Auto-MDI/MDIX
• Link Pass Through
• Remote Fault Detect
• Pause
• Automatic Link Restoration
• IEEE 802.1p QoS, IPv4 TOS/DiffServ, IPv6 traffic class
• IEEE 802.1Q Port VLAN, tagging and doubling tagging (Q in Q)
• Field Upgradeable Firmware
• Virtual Cable Test on UTP port
• Unidirectional data transmission
• Bandwidth Allocation
• DMI, digital diagnostics per SFF-8472
• RMON counters for each port
• Can be used in any ION Platform Chassis
• Secure unidirectional transmission
• Standards based, will link with any standard 10/100/1000Base-T and any standard 1000Base-SX or -LX ports

\*\*TECHNISCHE\_DATEN

\*\*\*Standards

\*\*\*

• IEEE 802.3
• IEEE 802.3ab
• IEEE 802.3u
• IEEE 802.3z
• IEEE 802.1p
• IEEE 802.1Q

\*\*\*

\*\*\*Data Rate

\*\*\*

• 10/100/1000 Mbps; Layer 2

\*\*\*

\*\*\*Max Frame Size

\*\*\*

• 10,240 Bytes (jumbo frame support)
• 1,632 Bytes when linked to an xGFEB10xx-120

\*\*\*

\*\*\*Switch

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• SW1: TP Auto-Negotiation
• SW2: TP Speed
• SW3: TP Duplex
• SW4: Link Pass Through
• SW5: Fiber Duplex
• SW6: Unused

\*\*\*

\*\*\*Jumper

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• Hardware/Software mode, Auto-MDI/MDIX

\*\*\*

\*\*\*Status LEDs

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• PWR (Power): ON = Connection to powered backplane
• LACT (Fiber Link): ON=Fiber link, Blinking=activity
• UTP Duplex/Link: Orange=half duplex link,
• Blinking = half duplex activity, Green = Full duplex link,
• Blinking =Full duplex activity,
• Off = 10 Mbps operation (or no link),
• Orange = 100 Mbps operation, Green = 1000 Mbps operation

\*\*\*

\*\*\*Dimensions

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• Width: 0.86” [22 mm]
• Depth: 6.5” [165 mm]
• Height: 3.4” [86 mm]

\*\*\*

\*\*\*Power Consumption

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• 3.6 Watts, 300mA @ 12 VDC

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\*\*\*Environment

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• Environment specs are dependent on the chassis chosen
• Operating: 0°C to 50°C
• Humidity: 5% to 95% (non-condensing)
• Altitude: 0 – 10,000 ft.

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\*\*\*Weight

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• 1 lb. [0.45 kg]

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\*\*\*MTBF

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• Greater than 250,000 hours (MIL-HDBK-217F)
• Greater than 667,500 hours (Bellcore)

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\*\*\*Certifications

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• CISPR/EN55022 Class A, EN55024, EN61000,
• FCC Class A, CE Mark

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\*\*\*Warranty

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• Lifetime