1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 16.0 dB to (4) RJ-48 [1.5 km/0.9 mi.] plus 10/100Base-TX (RJ-45) [100m]

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.

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- 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
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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

1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 16.0 dB to (4) RJ-48 [1.5 km/0.9 mi.] plus 10/100Base-TX (RJ-45) [100m]

The ION C6120 is a managed T1/E1/J1 mux media converter module that provides a solution for those users that need to extend multiple T1/E1/J1 connections, along with a 10/100 Ethernet connection, all over fiber. The C6120 includes (4) RJ-48 ports, (1) 10/100 Ethernet port, and (1) fiber port. The device is available in versions that support fixed fiber connectors as well as SFP fiber modules offering support for a variety of fiber types, distances, and wavelengths to provide maximum flexibility across a variety of network topologies. CWDM SFPs can also be utilized to further increase the bandwidth capacity of the fiber infrastructure.

The C6120 converter must be used in pairs. A typical installation will include a modular card installed in a managed ION chassis linked over fiber to a stand-alone S6120 in a remote location.

Features

- (4) RJ-48 copper interfaces
- (1) fiber interface (fixed or SFP)
- (1) RJ-45 10/100Mbps Ethernet port
- Auto-MDI/MDIX
- Pause (Flow Control on Ethernet port)
- Loopback via test set
- Local and remote loopbacks
- LEDs for device status and troubleshooting
- Settings for line code, line build out, loopbacks and Alarm Indication Signal (AIS)
- Access to complete status and configuration on local and remote device
- Remote firmware upgrade
- Remote management
- Must be used in pairs

Technical Data

Standards

- ANSI T1.102
- T1.403
- T1.408
- ITU I.431
- G.703
- G.736
- G.775
- G.823

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- ETSI 300-166
- ETSI 300-233
- TBR 12/13
- AT&T Pub 62411
- IEEE 802.3™-2008

Data Rate

- Copper ports (RJ-48): T1(J1) = 1.544Mb/s,
- E1 = 2.048Mb/s
- Ethernet port (RJ-45): 10/100Mbps
- SFP port(s) (empty): 100Base-X/OC-3

Switch

- Numerous switch settings for line coding, line build out, loopback and AIS

Status LEDs

- Power, Port Status, Loopback and AIS

Dimensions

- Width: 1.72" [44 mm]
- Depth: 6.5" [165 mm]
- Height: 3.4" [86 mm]

Power Consumption

- 6 Watts (max: dual fiber model)
- 5.5 Watts (max: single fiber model)

Environment

- 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.

Weight

- 1 lb. [0.45 kg]

MTBF

- 687,500 hours (Bellcore)

Certifications

- EN55022 Class A, EN55024, CE mark

Warranty

- Lifetime

Product variants & accessories

Art.-No.	Description
C6120-1014	1310nm single mode (SC) [20 km/12.4 mi.] Link Budget: 16.0 dB to (4) RJ-48 [1.5 km/0.9 mi.] plus 10/100Base-TX (RJ-45) [100m]

