

C4TEF10xx-125

(4) DS1 - T1/E1/J1 + 10/100 Ethernet Transport Mux NID



The C4TEF10xx-125 chassis card provides low cost transport capability through (4) T1/E1/J1 ports and (1) Ethernet port.

Copper connections through the C4TEF10xx-125 are compatible with G.703, AMI/B&ZS/HDB3, 10/100BASE-TX, and RS232 channel; while the optical connection runs at 155Mbps.

As TDM traffic is not mapped to Ethernet, a hardware-based solution guarantees the constant bit rate of TDM transport without requiring traffic management.

The C4TEF10xx-125 also provides physical layer status monitoring and alarm classification functions for Telecom operators to manage their fiber optic network and reduce operation and maintenance costs.

Features

- Target applications of the device include: FTTx, such as Fiber-to-the-Business, Fiber-to-the-Building, Fiber-to-the-MDU and Fiber-to-the-Home; Cell Tower backhaul
- Loopbacks via Test Set
- Auto-Negotiation for 10/100Base-TX
- Auto-MDI/MDIX
- Transparent Link Pass Through
- Automatic Link Restoration
- Pause (Flow Control)
- Remote Management
- Local and Remote Loopback
- Remote Fiber Loss Signaling
- AIS/TAOS
- LEDs for each data port
- Settings for line code, line length local loopback or remote Loopback
- T1/E1/J1 mode settings
- Local (AUX) Management Interface
- Access to complete status information on local and remote device
- Field Upgradeable Firmware

Management Features

- Report local device status
 - Port status
 - Device settings and configuration
- Local command operations include:
 - Loopback Fiber & T1/E1 per channel
 - AIS TX on fiber on loss of copper link & AIS TX on copper on loss of fiber link
- Ethernet Settings:
 - Auto-Negotiation Enable/Disable
 - Force speeds and modes on 10/100TX
- Remote device status:
 - Port Status
 - Device settings & configuration

Specifications

Standards	Ethernet interface: IEEE 802.3™-2008 TDM interfaces: ANSI T1.102, T1.403 and T1.408 ITU I.431, G.703, G.736, G.775 and G.823 ETSI 300-166, 300-233 and TBR 12/13 AT&T Pub 62411
Switches	Numerous switch settings for line coding, line buildout, loopback (per port), AIS setting, Ethernet port settings: Auto-Negotiation, Force speed/duplex and enable Transparent Link Pass Through
Jumper	Hardware: mode is determined by DIP switch settings Software: mode is controlled by the most recently saved, on-board microprocessor setting
Dimensions	Width: 1.72" [44 mm] Depth: 5" [127 mm] Height: 3.4" [86 mm]
Power Consumption	3.6 Watts
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]
Compliance	EN55022 Class A, EN55024, CE mark
Warranty	Lifetime

*Note: C4TEF cards cannot be used with the 1-Slot Point System™ Chassis. Devices must be used in pairs. Typical installation will include a chassis card installed in the Point System™ locally and a stand-alone device [S4TEF] installed at the remote location.

Ordering Information

C4TEF1011-125
1300nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100 m]

C4TEF1013-125
1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 11.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100 m]

C4TEF1014-125
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) [100 m]

***C4TEF1040-125**
1 SFP port (Empty) to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100 m]

***C4TEF1040-145**
2 SFP ports (Empty)
to (4) RJ-48 [1.5 km/0.9 mi.]
plus 10/100Base-TX (RJ-45) [100 m]

Single Fiber Products

C4TEF1029-125
1310nm TX/1550nm RX single fiber
single mode (SC) [20 km/12.4 mi.]
Link Budget: 19.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]

C4TEF1029-126
1550nm TX/1310nm RX single fiber
single mode (SC) [20 km/12.4 mi.]
Link Budget: 19.0 dB to
(4) RJ-48 [1.5 km/0.9 mi.]

C4TEF1029-127
1310nm TX/1550nm RX single fiber
single mode (SC) [40 km/24.9 mi.]
Link Budget: 25.0 dB
to (4) RJ-48 [1.5 km/0.9 mi.]

C4TEF1029-128
1550nm TX/1310nm RX single fiber
single mode (SC) [40 km/24.9 mi.]
Link Budget: 25.0 dB to
(4) RJ-48 [1.5 km/0.9 mi.]

*SFP port uses standard 100Base-x/oc-3 SFP

Management Features Cont.

- Remote Commands:
 - Loopback Fiber & T1/E1 per channel
 - AIS TX on fiber on loss of copper link & AIS TX on copper on loss of fiber link
- Ethernet settings (Software Mode)
- Force speeds and modes on 10/100TX
- Enable/Disable: Auto-Negotiation, Link Pass Through, Auto-MDI/MDIX