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CTM-100/C PROTOCOL CONVERTER AND TWO PORT MUX

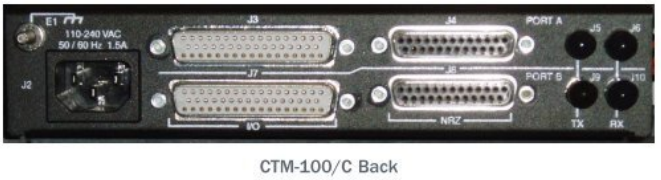
The DRS CTM-100/C Protocol Converter and Two Port Mux is a dual port modem that provides multiplexing and fiber optic capabilities delivering “last mile” capability to the most critical tactical networks. The CTM-100/C converts between serial Non-Return to Zero (NRZ) and Conditioned Diphase (CDI) and Fiber, at the same time meeting commercial standard and legacy military protocols.

Capabilities of the CTM100/C include support of CDI, a large range of supported NRZ protocols, on board Bit Error Rate Test (BERT) and a more functional user interface through the front panel or with the Command Line Interface (CLI). In addition, it has the highest output (data rate) and drives the furthest distances. The CTM-100/C also meets superior environmental standards including temperature range, shock and vibe.



CTM-100/C Front

An optional feature of the CTM-100/C is the ability to multiplex two high-speed groups of voice or data. This multiport Mux is compatible with military switching equipment such as THSDN MSE and EAC switches. The output in Mux mode is a TRI-TAC frame compatible aggregate.



CTM-100/C Back

Cleared by U.S. DoD/OSR for Public Release under OSR case number 10-S-1511 dated 04.29.2010.

HIGHLIGHTS

- **Small and light form factor**
- **Dual port - 4 conversions in 1 RU**
- **Programmed via front panel or terminal port**
- **Circuit testing and monitoring**
- **Multiplexer functionality**
- **MIL-STD-810F for shock and vibration**
- **Fiber compatible with JTC3A 9109C standard**
- **Utilizing tactical fiber cable such as CX-13295 (TFOCA): Extends circuits at distances up to 16 km and rates up to 18,720 kbps**
- **Utilizing legacy copper cables such as CX-11230: Extends circuits at distances up to 3.2 km and rates up to 4,608 kbps**
- **Optical transceiver can drive circuits 16 km over single or multi-mode cable**

PHYSICAL SPECIFICATIONS

Dimensions	
2 port converter	8.5 W x 1.63 H x 13 D inches (21.5 W x 4 H x 33 D cm)
4 ports in 1 RU rack	19 W x 1.63 H x 13 D inches (48 W x 4 H x 33 D cm)
Weight	4.3 lbs. (2 kg)
Compatibility	CTM-100, CTM-100/B, CV-2048, CV-8448, CV-FOM, KIV-7, KIV-19, KG-94, KG-194, MD-1272/G, MD-1026, and TRI-TAC
The fiber-optic modem is user-selectable for JTC3A 9109C or optional CV-8448 operation	

ELECTRICAL SPECIFICATIONS

Input voltage	110 to 230 VAC
Frequency	50/60 Hz
Power consumption	50 watts (typical)

SYSTEM TIMING

Two connectors per converter	Accepts external station clock in 1 MHz, 5 MHz, 10 MHz or bit rate supported
Additional supports	NRZ, CDI, fiber and internal clock
FOM mode supports	Receive fiber system timing red station (RX demand) clocking

POLARITY, MANAGEMENT AND CONFIGURATION

Polarity	User-selectable (normal or inverted)
Management	Front panel display or remote DB-9 connection
NRZ port configuration	DTE or DCE

DATA RATES

CDI balanced	8, 16, 32, 56, 64 kbps
CDI unbalanced	72, 96, 112, 128, 144, 192, 224, 256, 288, 320, 384, 448, 512, 576, 640, 768, 960, 1024, 1152, 1344, 1536, 1544, 1920, 2048, 2304, 2560, 3072, 3088, 3584, 4096, 4608 kbps
Optical	72 kbps to 18,720 kbps

DRIVE DISTANCES

CDI balanced	Up to 3.2 km at 64 kbps
CDI unbalanced	Up to 3.2 km at 576 kbps, up to 1.6 km at 2,304 kbps, up to 0.8 km at 4,608 kbps
Optical	Up to 16 km for all rates, using single- or multi-mode fiber

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	-4°F to +122°F (-20°C to +50°C)
Non-operating	-22°F to +176°F (-30°C to +80°C)
Relative humidity Non-condensing	Up to 95%
Altitude	
Operating	Up to 15,000 feet (4,600 meters)
Non-operating	Up to 40,000 feet (12,200 meters)

TESTING RESULTS

Shock and vibration	MIL-STD-810F
EMI/EMC	FCC Part 15 Class A

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