

TELEGRID's CDP-4608 performs bi-directional format conversion between Conditioned Di-Phase (CDP) and Non-Return to Zero (NRZ) signals at tactical rates up to 4608Kbps. The CDP-4608 is designed to plug into a KIV-19 rack as shown below, in order to reduce total assemblage size and weight. It operates from power provided by the KIV-19 power supply. The CDP and NRZ interfaces of the CDP-4608 are in accordance TRI-TAC ICD-003 specification and MIL-STD-188-114A respectively. The CDP-4608 operates in the following rates selectable by a front panel switch: 72, 128, 144, 256, 288, 512, 576, 1024, 1152, 1536, 1544(T1), 2048, 2304, 4096, 4608Kbps.

### Plugs Into KIV-19 Rack



# CDP to NRZ CONVERTER

## Model CDP-4608

### FEATURES

- ◆ Full-duplex conversion of CDP signals (IAW ICD-003) to/from NRZ signals (IAW MIL-STD-188-114A).
- ◆ Front panel-selectable rates in the TRI-TAC/MSE modulo 8 and modulo 9 families plus 1544 Kbps.
- ◆ Designed to be easily pluggable into KIV-19 rack.
- ◆ Designed to operate from KIV-19 power supply.
- ◆ Front panel MODE switch for diagnostics.
- ◆ Front panel LED fault indicators.

### BENEFITS

- ◆ Allows direct interface between Trunk Encryption Device (TED) and CX-11230 cable.
- ◆ Supports all TRI-TAC or MSE rates up to 4608Kbps and commercial T1 rate.
- ◆ Provides a reduced size and weight solution. Supports direct wiring in rear of KIV-19 rack.
- ◆ Eliminates need for an additional power supply and cables.
- ◆ Provides loop-back of both CDP and NRZ signals.
- ◆ Indicate fault in CDP or NRZ traffic.

### SPECIFICATIONS

#### CDP INTERFACE

**Data Rates:** Mod 8/9 and 1544 Kbps  
± 50 ppm

**Electrical:** CX-11230 Cable  
50 ohm impedance

**Format:** Conditioned Di-Phase

#### MIL-STD-188-114A INTERFACE

**Data Rates:** Mod 8/9 and 1544 Kbps  
± 50 ppm

**Electrical:** Balanced NRZ  
78 ohm impedance

#### OTHER

**Operating Mode:** Full Duplex

**Cable Length:** Drives up to  
½ mi. at 4608Kbps.

**TED Interface:** Direct interface  
to KIV-19.

**Diagnostics:** NRZ and CDP  
loopbacks. Front panel  
fault indicators.

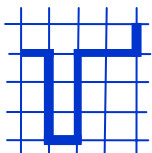
**Power:** +28VDC provided by  
KIV-19 power supply.

**Operating Temp:** 0 to 40  
degrees C, ambient.

**Relative Humidity:** 0 to 90%  
non-condensing.

**Size:** W 5.1", L 10", H 1.75"

**Weight:** 2 lbs.



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