

8 Channels Conversion of NRZ to E1 or T1



PN 701309

Features

- Provides 8 Channels of conversion from NRZ to E1 or T1 Telecommunications signals.
- RS-422 or LVDS Level NRZ Clock and Data Inputs.
- Isolated E1 or T1 75 Line Outputs per ITU-T G.703/G.704 and ANSI T1.403 respectively.
- Contains a Test Pattern Generator with RS-422 or LVDS Level NRZ Clock and Data output for Self Test and System Test.
- Produces framed ITU-T G.732 or unframed PRBS patterns per ITU-T O.153.
- E1 Framing parameters: TS16 Signaling - Off, CRC4 - Off, International Bit = 1, National Bits = 11111.
- T1 Framing parameters: SF/D4 framing, No AB Signaling.
- Data and Clock Validity indicators for each channel.
- Standard 1U rack mountable.
- Powered from 120/240VAC auto-ranging.

Description

The Technisys 8 Channel NRZ to E1/T1 Converter is a stand-alone device designed to provide conversion of 8 Channels of NRZ Clock and Data to E1 or T1 Line Outputs. The NRZ differential inputs are via RJ-45 connectors, and the E1/T1 Line outputs are via Concentric Twinax connectors. Clock and Data validity for each channel is indicated by front panel LEDs. The Line Interface (E1/T1) and corresponding data rate (2.048MHz/1.544MHz) are selected by a front panel switch. Front panel switches provide the ability to selectively invert the incoming data and clock for each channel.

The unit also contains a Test Pattern Generator, which provides R3, R7, R15, R20 PRBS patterns, and All Ones pattern. Selection is made via front panel 5-position rotary switch. When the Test Generator FRAMED Mode is selected, the PRBS patterns are mapped into the payload of E1 or T1 frames, as selected by the T1/E1 System Rate Switch. Output from the Test Generator may be directly connected to the NRZ inputs via a straight-through cable with RJ-45 connectors.

Additional Models Available

In addition to this model, Technisys also offers units for **CLOCK/DATA RECOVERY (CDR)** from E1/T1 Line input and **E1/T1 Line Rate Conversion**. These units, P/N 701319 & 701321 respectively, are available in the same 1U package, which includes auto-ranging AC Mains. Please contact Technisys for more details.



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