E1DT E1/PRI Data Tap

Active Buffered Data tap for E1/PRI monitoring



E1DT E1 Data Tap/Buffer provides a means of monitoring and capturing traffic flowing in both directions of a 2Mbits/s E1/PRI (G.703/G.704) communications link.

The line connections are made through two RJ-45 connectors that are hard-wired in parallel. All line activity is passed-through the Splitter/Buffer. Monitoring and recording equipment can be connected or disconnected without disturbing the line.

Line signals are split and fed into high-impedance buffers that load the line signals by less than 0.1dB. Low-impedance outputs allow the monitoring equipment to be located up to 50m away from the line connection.

The design ensures that there is no interruption of the line signals when the Splitter/Buffer is unpowered.

LED indicators are provided for power and signal presence at each monitor output connector.

E1DT operates from +6v to +12V DC power. UK and European AC power adapters are available as options.

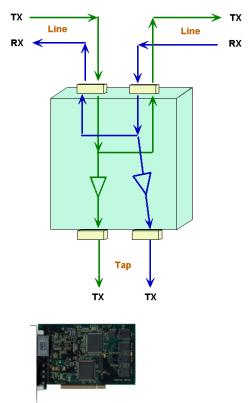
Two versions are available as follows:

E1DT-ASSY-0058 provides the monitor outputs on a single RJ-45 connector (pins 1/2 and 4/5) for use with devices that monitor both Tx and RX on the same input connector.

E1DT-ASSY-0059 provides the monitor outputs on two RJ-45 connectors (pins 1 & 2) for use with devices that monitor Tx and RX on two input connectors, including the SomerData E1/PRI Data Capture Card.







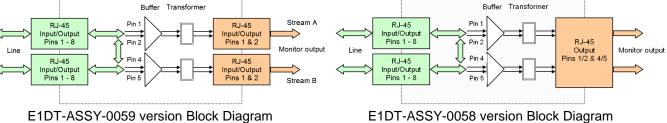
E1/PRI Data Capture Card

E1/PRI Data Recorders

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Specifications Line Interface Signal ITU G.703, 2,048 kbits/s Line Code HDB3 Data Type Framed or unframed Signal Amplitude ±3.00V (nominal) Operating: Absolute Maximum: -5V (lower limit) +5V (upper limit) Line Connection Two RJ-45 connectors hard-wired in parallel Optional BNC adapter cable Line connection supports 120Ω balanced, 75Ω unbalanced or monitor connection Note that there are no terminating devices in the line interface Unpowered performance Crosstalk Better than -64dB Residual output Better than -35dB Input signal loading Less than 0.1dB **Power Requirements** Voltage +6 Volts DC to +12 Volts DC Operating: Absolute Maximum: -0.25V (lower limit) +15V (upper limit) Current Less than 100mA Connector Low voltage 2.1mm (centre positive) Power-on Indication LED indicator AC Adapters UK and European adapters are available as options Environmental Temperature 0°C to 70°C Relative Humidity 5% to 95% non-condensing Buffer

Buffer Monitor Outputs (Stream A and Stream B) E1DT-ASSY-0058: RJ-45 connector (Tx pins 1/2 and Rx pins 4/5) E1DT-ASSY-0059: Two RJ-45 connectors (Tx pins 1/2) compatible with SomerData R2D3 E1/PRI Data Capture card Input Impedance 1500Ω Monitor Output Impedance 120Ω balanced Monitor Output Level Unloaded: 2 x Input Level Unity Gain Loaded: Monitor Output Signal Presence Indicators LED indicator ±1.2V p-p signal detection threshold Monitor Output Isolation Transformer coupled 1500V RMS AC breakdown Insertion Loss Less than 0.2dB Output to Input Gain Variation Less than 0.1dB Output Balance Error -70db (typical) Noise (no signal, loaded input) Better than -63dB Crosstalk (standard input) Better than -47dB Maximum Input Voltage ±3.5V Output Drive Capability Greater than 50 metres (120Ω load, Cat 5 cable) Output Drive Attenuation 0.2dB per 10 metres Physical Dimensions 55mm x 45mm x 25mm (ABS enclosure)



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