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RS232 TO E1 CONVERTER

RS232 to E1 (G.703)Interface converter will convert RS232 a synchronous data into 2.048mbps E1 Data.

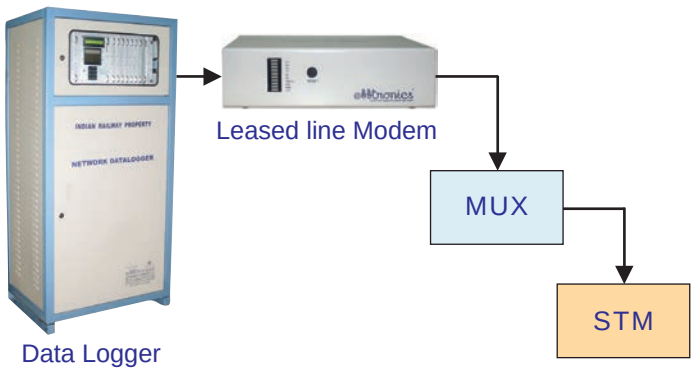
FEATURES

- In built BERT tester
- Supports following loop back tests for diagnostic purpose.
  - a) Remote loop back test
  - b) Local loop back test

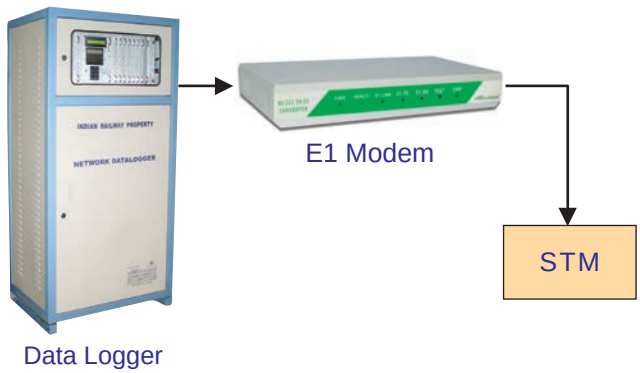
ADVANTAGES

- Day by day Datalogger network data is becoming data intensive. Initially we have only status of digital inputs & analog inputs which are being monitored at station. Now RTU's located at gates, IB huts & other signaling electronic equipment like SSI, Axle counters need to send their data through Datalogger network. So data coming from different sources should be routed through Datalogger network which creates a need for higher bandwidth. E1 line (ITU - G.703 standard) supports 2.048Mbps speed, whereas leased line modem can only support up to 14.4 Kbps (ITU - V.32BIS standard) in physical layer and works up to 57.6kbps using compression technique (ITU - V.42BIS standard).
- E1 line can improve the reliability of Datalogger network. In conventional method Datalogger is connected in the following way

Existing Connectivity



Recommended Connectivity



With E1 connectivity we can completely remove the need of primary multiplexer. This creates less number of connections and improves reliability of Datalogger network further. Failures of mux are comparatively high. So elimination mux will improve network connectivity.

- At Central control room, users can use Datalogger data for simulation and monitoring of Faults. If data is available with lesser lagtimes, It can create more value to the user. With E1 connectivity we can reduce the lagtimes further.

SPECIFICATIONS

Line Rate	2.048 Mbps
Line Coding	HDB3
Interface	E1 interface as per G.703
Impedance	120 ohm (Balanced) 75 ohm (Unbalance)
Connector	RJ45 for balanced BNC for unbalanced

Power Supply	9 to 36V DC
Power consumption	less than 2W
Led Indications	Power, E1 Sync, Test, Error, TD, RD, Health
E1 port Isolation	1500Vrms
Temperature	-5^{O}C to 70^{O}C
DTE Interface	Line speed up to 115200 bps with Db9 connector

'R & D'
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