

# E1/T1 Repeater Pack

## Repeater Series

The **ETR01** and **ETR04** are E1/T1 long-haul, OSI Layer One repeaters. The compact design, low cost, and easy operation make the ETR an excellent choice for E1 or T1 link extension. The **ETR01** provides a simple 1 pair (Tx/Rx) in, 1 pair (Tx/Rx) out repeater interface, while the **ETR04** provides a 1 (Rx) in, 4 (Tx) out interface. Setup is extremely simple. Just select the proper termination impedance from the three position slide switch (75 or 120 Ohm for E1 or 100 Ohm for T1) and then select the proper line code (AMI or B8ZS for T1, HDB3 for E1).



### Features

- Fully integrated transceivers for long-haul T1 or E1 interface.
- Selectable E1 75Ω, E1 120Ω or T1 100Ω line impedance.
- Selectable line codes; AMI, B8ZS, or HDB3
- Fully complies with: ANSI T1.403 and T1.408; ITU I.431, G.703, G.736, G.775 and G.823; ETSI 300-166 and 300-233; and AT&T Pub 62411.
- Receiver sensitivity; fully restores the received signal after transmission through a cable with attenuation of 0 to 36dB @ 772KHz or 0 to 43dB @ 1024KHz.

### Specifications

#### E1 LINK

- **Bit Rate** 2.048Mbps
- **Line Code** AMI  
HDB3
- **Line Impedance** 75Ω (unbalanced)  
120Ω (balanced)
- **Receive Level** 0 to -43dB
- **Pulse Amplitude** 2.37V±10% @ 75Ω  
3.00V±10% @ 120Ω
- **Zero Amplitude** ±0.1V
- **I/F Connectors** RJ-45 (for ETR01)  
BNC (for ETR01-BNC)

#### T1 LINK

- **Bit Rate** 1.544Mbps
- **Line Code** AMI  
B8ZS
- **Line Impedance** 100Ω
- **Receive Level** 0 to -36dB
- **Pulse Amplitude** 3.00V±10% @ 100Ω
- **Zero Amplitude** ±0.1V
- **I/F Connector** RJ-45

### Indicators

#### ETR01 (-BNC)

PWR	Red	Power on
IN1	Red	In 1 Signal Loss
IN2	Red	In 2 Signal Loss

#### ETR04

PWR	Red	Power on
IN	Red	In Signal Loss

### Ordering Information

#### ETR01

one RJ-45 to one RJ-45 connector, 2 in 2 out

#### ETR04

one RJ-45 to four RJ-45 connector, 1 in 4 out

#### ETR01-BNC

one pair BNC in, one pair BNC out

### Application

