



## 16 x E1 (32 Port) Balun Panel



### Description

These Balun Panels provide 75/120 ohm impedance matching for 16 E1 Circuits, converting unbalanced coax circuits to balanced twisted pair. Coaxial connectors can be specified as BNC or 1.6/5.6 (Small Siemens). Twisted pair connectors are 50 way Female Telco (AMP Champ), which are wired as per the wiring scheme below. Our bespoke section contains details of this Balun Panel wired to Nortel specifications.



Please e-mail us if you require a different wiring scheme.

Designed to meet or exceed CCITT G.703 Specifications for bi-directional signal conversion, at data rates from 2.048 to 8.448Mbit/s.

When Impedance Matching is not required our 16 x E1 Through Coupler provides a neat standard solution.

### Features and Benefits

- Resolves the 75/120 ohm impedance mis-match between twisted pair equipment and coax cabling schemes.
- A cost effective, space efficient, robust, reliable and proven method of impedance matching 75 ohm coax to 120 ohm twisted pair.
- Industry standard BNC, 1.6/5.6 and Telco Connectors allow convenient and flexible cabling.
- The high density design converts up to 16 x E1 Circuits in only one 19" Rack Unit (1.75" 44mm).
- Designed for E1/T1 applications
- Bi-Directional signal conversion, compliant with CCITT G.703
- No Power Required
- 5 Year Parts and Labour Warranty
- Complete with all necessary rack mount accessories

### Wiring Scheme

E1 Circuit		Transmit		Receive	
J 1	J 2	Ring	Tip	Ring	Tip
1	9	1	26	2	27
2	10	4	29	5	30
3	11	7	32	8	33
4	12	10	35	11	36
5	13	13	38	14	39
6	14	16	41	17	42
7	15	19	44	20	45
8	16	22	47	23	48

### Specifications

75 ohm Connections	32 x 1.6/5.6 or BNC
120 ohm Connections	2 x 50 way Female Telco
Transmission Line	CCITT G.703
Speed	2.048Mbit/s (E1) and 8.448Mbit/s (E2)
Cross Talk	Better than -60dB at 1 to 10Mhz
Insertion Loss	Less than 0.35dB
Return Loss	Better than 35dB
Dimensions	482 W x 55 D x 44.5 mm H (19" x 2.2" x 1.75")
Materials	Case - Zintec, Black Powder Coated
Weight	1.5Kg
Warranty	5 Years, Parts and Labour
MTBF	Estimated 30 Years
Operating Temperature	0° to 50° C
Power Requirements	None
Harmonisation Code	8544 - 42 - 10

Part Numbers	Description
TKPP.E16.02	1.6/5.6 to Telco Balun Panel
TKPP.E16.03	BNC to Telco Balun Panel