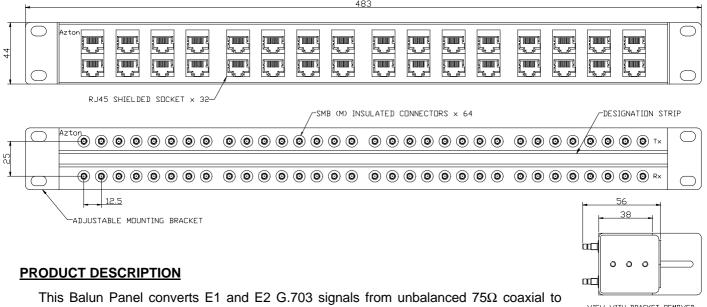
## Balun Panel, 75/120**W**, 2-8Mbit/s, E1 & E2, Shielded 19" 1RU, 64xSMB (m) to 32xRJ45 (f)



This Balun Panel converts E1 and E2 G.703 signals from unbalanced  $75\Omega$  coaxial to balanced  $120\Omega$  twisted pair transmissions. A bi-directional device requiring no external power, it allows the user to connect telecommunications equipment with mismatched interfaces or facilitates the conversion from coaxial to twisted pair distribution wiring. This product offers the following features:-

- coax to twisted pair conversion
- 75 $\Omega$  to 120 $\Omega$  impedances
- > 70dB cross talk
- mounts in standard 19" rack
- zinc sealed, powder coated steel
- SMB (m) to RJ45 shielded
- > 33dB return loss 0.3 to 3MHz
- mount coax or RJ45 to front
- > 1.25μm of gold plating on pin
- configuration options available
- exceeds G.703 requirements
- < 0.15dB E1 insertion loss
- mount recessed to ease cable entry
- teflon coaxial insulators
- long life, high reliability

## **OPERATING CONDITIONS**

Matching Impedance: 75 ohm unbalanced coaxial to 120 ohm balanced twisted pair Bit Rate: 2Mbit/s (E1) and 8Mbit/s (E2) per ITU-T G.703 Line Code Signal Level: 2.37V nominal peak voltage at the coaxial end per G.703

Working Temperature: -30°C to 75°C

## **ELECTRICAL SPECIFICATIONS**

Insertion Loss: < 0.15dB from 51kHz to 3.072MHz (2Mbit/s, E1) and

< 0.20dB from 211kHz to 12.673MHz (8Mbit/s, E2) in both directions Exceeds G.703 by > 13dB for 2Mbit/s and > 8dB for 8Mbit/s

Return Loss: Exceeds G.703 by > 13dB for 2Mbit/s and > 8dB for 8l
Pulse Shape: Exceeds G.703 requirements for 2Mbit/s and 8Mbit/s
Cross Talk: > 70dB from 51kHz to 12.673MHz between channels

Isolation Voltage: < 250V DC

## **MECHANICAL SPECIFICATIONS**

Coaxial Connector: SMB male to IEC 169-10

Outer Contact: Brass, Plated Cu/Ni5/Au0.8

Pin: Brass, Plated Cu/Ni5/Au1.25

Insulator: Teflon Mating Cycles: 500min

RJ45 Connector: Contacts: Phosphor Bronze, Plated Ni/Au

Moulding: PBT Glass Filled, Black

Shield: Brass, Plated Sn

Panel: Steel, Zinc Sealed and Powder Coated Black

Insulators: Polyethylene, Black

**ACCESSORIES** 

Mounting Brackets: For 21" and 23" racks

