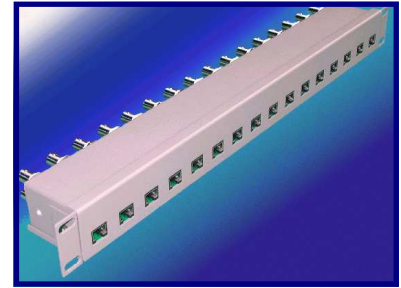


## 19" Rack Mount G.703 Balun Panels

### 16 Dual paths in 1U Height

Designed for ease of installation the units have the following features:

- ◆ 100% tested for reliability and durability
- ◆ Meets or exceeds G.703 specification
- ◆ 16 RJ45 connectors to 32 BNC Coaxial connectors
- ◆ Fully enclosed "tamper proof" design
- ◆ Removable mounting brackets allow unit to be recessed or reversed



The Cambridge Connectors' Dual Path Balun Panel for use in G.703 Telecommunication Applications enables data, carried over 75 ohm co-axial unbalanced cables, to be converted into balanced signals on low cost 120 ohm twisted pair cables. This has two benefits, cabling costs are greatly reduced and much higher wiring densities can be achieved. In addition, reliability is enhanced due to the higher integrity of connection that can be achieved. The physical connection is achieved through Female BNC connectors to fully screened RJ45 sockets.

Designed to meet CCITT G.703 Specifications, the 19" rack mounted panel comes in 1U size and is fully enclosed in a tamper proof steel case. Grounding is achieved through either masked zintec areas on the adjustable mounting brackets or by using a 4mm rear mounted grounding stud. The balun panel, which requires no external power, features exceptionally low signal loss exceeding G.703 Specification. The mounting brackets are available in two styles, standard or long. The long versions enable the panel to be recessed if required by 50mm. Both brackets can be reversed to allow either the BNC connectors or the RJ45 connectors to be front facing.

### TECHNICAL SPECIFICATION

#### Mechanical:

RJ45 connector - Molex 1.3 microns Gold over Nickel - > 500 cycles

BNC connector - Nickel plated body, Gold plated contact - > 100 cycles

#### Electrical:

Impedance: 75 ohm unbalanced to 120 ohm balanced

The insertion loss is less than the curve formed by the straight-line insertion loss mask:

10 KHz	20 KHz	100 KHz	1 MHz	5 MHz	10 MHz	20 MHz
3.0 dB	1.0 dB	0.5 dB	0.5 dB	0.5 dB	1.0 dB	3.0 dB

Bi-directional return loss is more negative than -20dB between 100KHz and 5MHz.

Part Number	Description
NPGSB-32-DA	19" Balun panel 1U high - 16 x RJ45 female to 32 x BNC female
71N-4031-00	Standard Mounting Bracket
71N-4032-00	Elongated Mounting Bracket (allows 50mm recess)