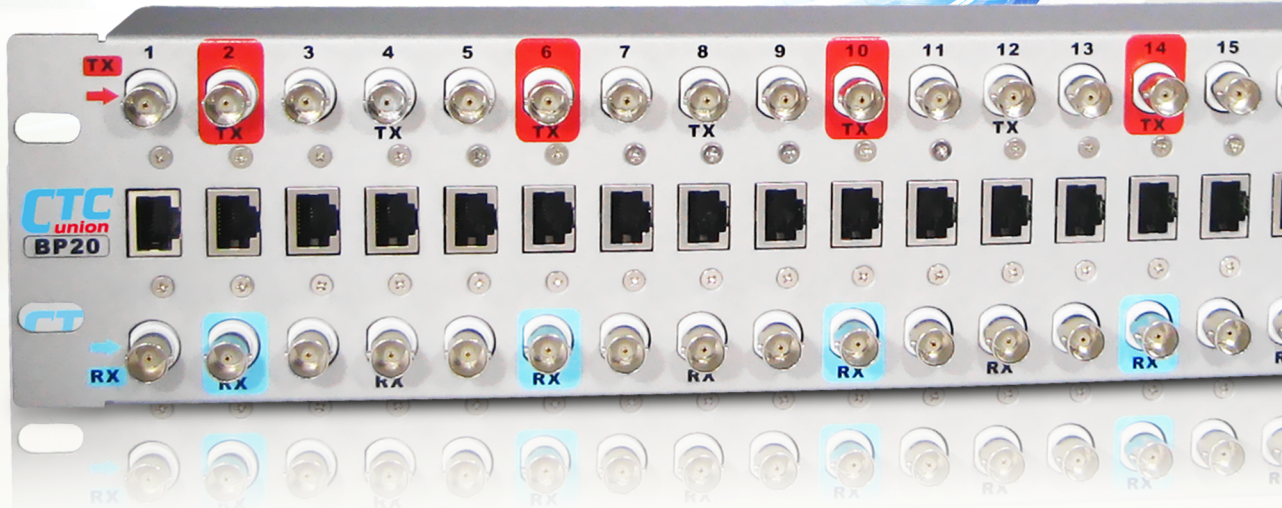
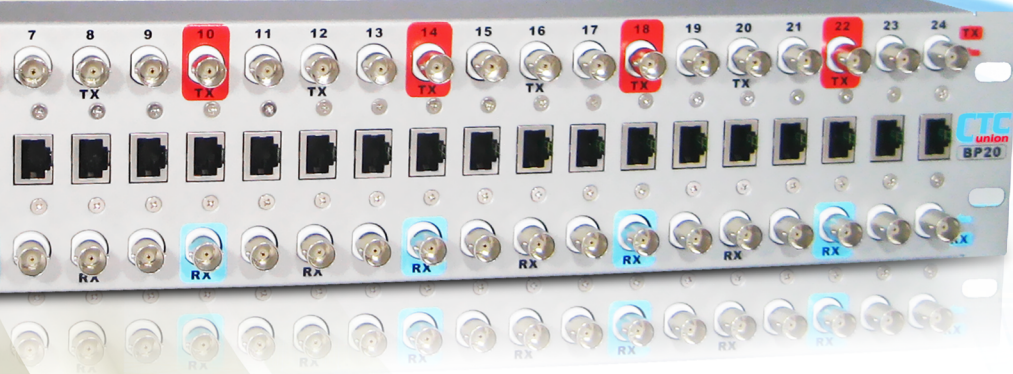


Balun

*Modular Design
Cost-Effective Solution
Rack Mountable*



Coax to Twisted Pair

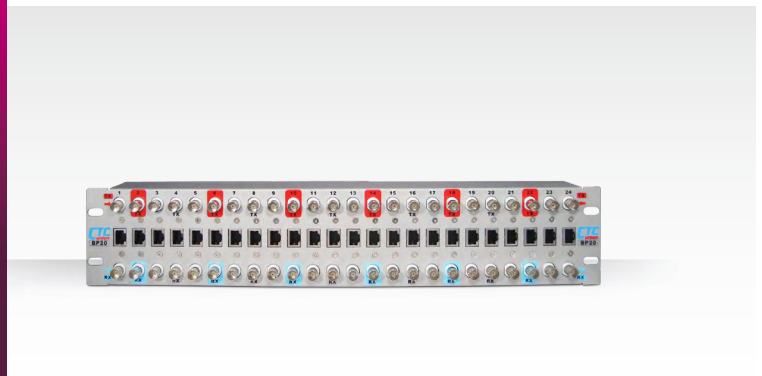
Balun Patch Panel

Mini Balun



BP20

24-port BNC to RJ45 E1 Balun Rack



The ITU-T G.703 balun panel matches multiple sets of dual 75 ohm coax connections to multiple 120 ohm twisted pair connections, supporting data stream rates of 2-8 Mbps for E1 and E2. The patch panel bi-directionally matches not only signal impedance, but also the pulse shapes of the signals according to the ITU-T G.703 standard. The modular construction allows up to 24 separate G.703 BALUN Modules in a 19" rack mountable chassis. This modular design provides a cost-effective solution and can be purchased in separate components.

Features

- ◆ Connects 75 ohm dual coax to 120 ohm twisted pair
- ◆ Mounts in standard 19" Rack
- ◆ No AC power or batteries needed
- ◆ Link-to data isolation: Mini. 250V
- ◆ Bi-directional signal conversion
- ◆ Operating temperature 0°C ~ 75°C
- ◆ Typical distance: 180m via Cat.5e cable

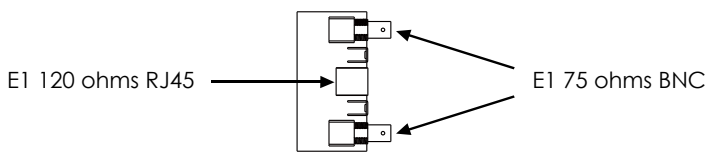
Specifications

Data Rate	2 to 8Mbit/s speed version for E1 , E2 data streams	Return loss	75 ohm -47.5dB(2Mbps); -37.9dB(8Mbps) 120ohm -43.5dB(2Mbps); -34.5dB(8Mbps)
Impedance	75 ohm to120 ohm	Dimension	483 x 88 x 46.2mm (D x W x H)
Insertion loss	Max 0.3dB(2Mbps); Max 0.5dB(8Mbps)	Weight	2.3kg

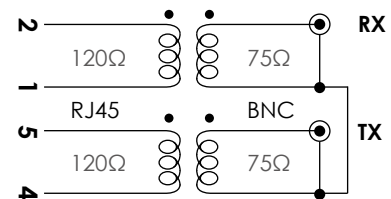


24-port G703 patch panel

G.703 BALUN Modules



G.703 BALUN Pin Assignment



Ordering Information

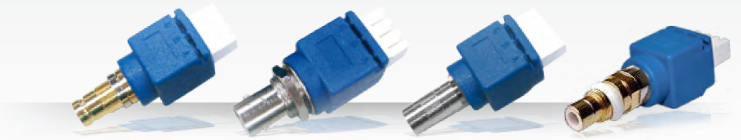
Model Name	Description
BP20-CH	2U, 19" 24 ports G703 balun patch panel rack Fixed type G703 balun module not included
BP20-M01	1-port fixed type G703 Balun module Female BNC to STP RJ45 on the same side

BP20 -
Example: BP20 - CH

BLN-3010 BLN-4010

BLN-5010 BLN-6010

G703 Mini Balun



A balun is a type of electrical transformer that can convert electrical signals that are balanced to signals that are unbalanced and vice versa. They are also used to change impedance of twisted pair's 120 ohm to coaxial's 75 ohm. An E1 balun's function is generally to convert an E1 carrier signal from coaxial cable to UTP CAT-5 cable. The BLN4010 is miniature Balun designed for applications where space is restricted due to small dimensions or high densities. The fully shielded design is intended for panel mounting and IDC twisted pair termination is available in either standard BNC or 1.6/5.6 jack unbalanced connectors.

Features

- ◆ Converts between 75 ohm coax and 120 ohm twisted pair for E1(2048Kbps)
- ◆ Works in either direction
- ◆ Body parts plated with minimum 5u Ni(Nickel)
- ◆ Contacts plated with minimum 1.25u Ni(Nickel) and 1.25uAu(Gold)
- ◆ Coax connectors with BeCu spring contacts and Teflon insulators
- ◆ Coaxial connector insertion cycle > 500
- ◆ IDC contacts Phosphor Bronze
- ◆ IDC connect/disconnect cycle > 20
- ◆ IDC to suit 24.26.28 AWG Copper wire
- ◆ Integrated cable anchor allows cable to be inserted after termination on IDC

Specifications

Data rate	2048Kbps
Unbalanced interface	75 ohm impedance, 1xBNC or 1x 1.6/5.6 Jack
Balanced interface	120 ohm impedance, IDC

Dimensions	1.7cm x 1.6cm x 4.8cm (D x W x H)
Weight	15g
Compliance	ITU G.703 standard pulse



BLN-3010 : 1.6 / 5.6 Jack to Krone IDC



BLN-5010 : BT43 to Krone IDC



BLN-4010 : BNC to Krone IDC



BLN-6010 : SMZ to Krone IDC

Ordering Information

Model Name	Description
BLN-3010	75 ~ 120 ohm Balun, 1.6/5.6 Jack to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)
BLN-4010	75 ~ 120 ohm Balun, BNC/F to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)
BLN-5010	75 ~ 120 ohm Balun, BT43 to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)
BLN-6010	75 ~ 120 ohm Balun, SMZ to Krone IDC IDC Pin Assignment PA(-), PB(+), PG(G)

BLN - □□□□
Example: BLN - 3010

Balun-P/S

Balun-B1/B2

G.703 Coax to Twisted Pair



A balun is a type of electrical transformer that can convert electrical signals that are balanced to signals that are unbalanced and vice versa. They are also used to change impedance of twisted pair's 120 ohm to coaxial's 75 ohm. An E1 balun's function is generally to convert an E1 carrier signal from coaxial cable to UTP CAT-5 cable.

Features

- ◆ Converts between 75 ohm coax and 120 ohm twisted pair for E1 (2048Kbps)
- ◆ Easy to install
- ◆ No power required
- ◆ Small, light-weight Balun
- ◆ Works in either direction
- ◆ Works for balanced and unbalanced E1

Specifications

Data rate	2048Kbps
Unbalanced interface	75 ohm impedance, 2xBNC
Balanced interface	120 ohm impedance, 1xRJ-45
Dimensions	Balun-B2/S , Balun-B2/S-2 4.4 x 5.4 x 2.5cm (W x D x H) Balun-B1 2.2 x 5.6 x 2.1cm (W x D x H) Balun-P/S , Balun-P/S-2 2.2cm x 22.4cm x 2.1cm

Weight	Balun-B2/S , Balun-B2/S-2 35g Balun-B1 65g Balun-P/S , Balun-P/S-2 45g
Compliance	ITU G.703 standard pulse

Ordering Information

Model Name	Description
Balun-P/S	Two BNC pigtail type RJ45 Shielded - 2xBNC/M with 6" pigtail RJ45 PIN ASSIGNMENT: P1(+) / P2(-) , P4(+) / P5(-)
Balun-B1/S	One BNC box type RJ45 Shielded - 1xBNC/F RJ45 PIN ASSIGNMENT: P4(+) / P5(-)
Balun-B2/S	Two BNC box type RJ45 Shielded - 2xBNC/F RJ45 PIN ASSIGNMENT: P1(+) / P2(-) , P4(+) / P5(-)

Balun - □ / □
Example: Balun - P/S