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# G.703/E1 Rack Mount Baluns

Connect-IT 450RC High Density G.703 Balun Panel



## 

The Patton Model 450RC24 Ultra High-Density 24 Port Balun Provides Flexible 75/120-Ohm Telco Interfacing Solutions for E1 Networks

#### Overview

The Patton 450RC24 G.703 balun panel matches 24 sets of dual 75-ohm coax connections to 120-Ohm 50-pin telco connections. This feature allows network & datacom equipment manufacturers who are selling equipment for use in COs with only 120-Ohm telco interfaces to offer their equipment to G.703/G.703 countries using 75-ohm connections. This eliminates the mismatch with coax legacy equipment in many COs.



Supporting E1 data rates to 2.048 Mbps, the Patton 450RC24 panel bi-directionally matches signal impedance and pulse shapes according to the CCITT G.703 standard. The Patton 450RC24 balun panel mounts in a standard 19-inch (48.3-cm) rack, occupies only 1U of rack space, and includes a reversible top cover.

#### **Features**

- Connects 75-Ohm dual coax to 120-Ohm dual 50-pin telco connectors
- Bi-directional signal conversion according to CCITT G.703
- Data rates up to 2.048 Mbps
- 1U high enclosed chassis
- Reversible cover with integrated mounting ears
- Mounts in standard 19-in. (48.3 cm) rack
- No AC power or batteries required
- 24 female BNC coax pairs
- Dual 50-pin telco 120-Ohm connectors
- 6-inch BNC removal tool
- Made in the USA This Patton equipment is designed by Patton engineers and built in our Gaithersburg, Maryland facility. Patton's Americanmade manufacturing process delivers high-quality networking solutions with reliability you can trust.

## Specifications

#### **Electrical Characteristics**

Averaged between 1MHz and 3MHz

Avg. Cross Talk: Better than 54.4 dB (Between adjacent channels (TX and RX)

**Avg. Insertion Loss:** Less than .30dB **Avg. Return Loss:** Better than 31.5dB

**Physical Specifications** 

Transmission Line: CCITT G.703 (unstructured)

Data Rate: 2.048 Mbps

**75 Ohm Connection:** Dual coax female BNC connectors **120 Ohm Connection:** Dual 50-pin Telco connectors

Power Supply: none required

Link-to-Data Isolation: 500 volts AC/DC Temperature Range: 32-122°F (0-50°C)

Relative Humidity: 5 to 95% RH, non-condensing

**Altitude:** 0-15,000 feet (3,048 meters)

**Dimensions (without handles):** 19" Wide x 3.5" High x 1.9" Deep (48.3 x 8.9 x 4.8 cm)

Weight: 4.46lbs (2.02kg)

## Ordering

#	Model#	Description	Availability
1	450RC/24	24-PORT E1/G.703 BALUN PANEL	Special Order
2	450RC/24B	24-PORT E1/G.703 BALUN PANEL-ALT PINOUT	Special Order

Item Number	Item Description	Price
SVC-SmartCare-BH		Contact us (/howtobuy/)
(/support/support.as	Premium Support for Business Hours p)	for availability and pricing.
SVC-SmartCare-24/7 (/support/support.as	Premium Support, 24 x 7 Coverage	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-BH (/support/support- professional.asp)	Business Hour Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-AH (/support/support- professional.asp)	After Hours Support Services	Contact us (/howtobuy/) for availability and pricing.

SVC-ENHWAR1 (/support/support- warranty.asp)	1 Year Enhanced Warranty	(/howtobuy/) for availability and pricing.
SVC-ENHWAR2 (/support/support- warranty.asp)	2 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR3 (/support/support- warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR4 (/support/support- warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support- warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR2 (/support/support- warranty.asp)	2 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR3 (/support/support- warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support- warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR5 (/support/support- warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-NETENG-HOUR (/support/support- professional.asp)	Network technician hour rate for pre-config services, after hours support, etc.	Contact us (/howtobuy/) for availability and pricing.

Contact us

#### Certifications

Declaration of Conformity - Data Communication Devices: Baluns, Data Taps, Surge Protectors, Pocket Testers, Isolators, Modem Eliminators, Adapters, Gender Changers (/certifications/00111D1-001E.pdf)

December 26, 2012

February 12, 2015

Declaration of Conformity - Baluns (/certifications/00111D1-001D.pdf)

**Data Sheets** 

Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf)

April 24, 2015

**Product & Solution Guides** 

Enterprise Networking Products Guide (/guides/07MENTNET-PG-lo.pdf)

November 10, 2010

**User Manuals & Configuration Guides** 

BroadSoft Configuration Guide for SmartNode SmartWare (/manuals/BroadSoft\_PartnerConfigGuide\_Patton\_SmartNode.pdf)

December 2, 2013

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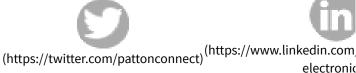
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