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G.703/E1 Rack Mount Baluns

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



Connect \leftrightarrow IT

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 American-made 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 (/support/support.asp)	Premium Support for Business Hours	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartCare-24/7 (/support/support.asp)	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	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR2 (/support/support-warranty.asp)	2 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR3 (/support/support-warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support-warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR2 (/support/support-warranty.asp)	2 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR3 (/support/support-warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support-warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR5 (/support/support-warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. 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 (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.

Backgrounders

FiberPlex Capabilities Guide (/backgrounders/FiberPlex_Capabilities_Statement.pdf)

October 6, 2017

Certifications

Declaration of Conformity - Data Communication Devices: Baluns, Data Taps, Surge Protectors, Pocket Testers, Isolators, Modem Eliminators, Adapters, Gender Changers (/certifications/00111D1-001E.pdf)	February 12, 2015
Declaration of Conformity - Baluns (/certifications/00111D1-001D.pdf)	December 26, 2012

Data Sheets

Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf)	April 24, 2015
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Product & Solution Guides

Enterprise Networking Products Guide (/guides/07MENTNET-PG-lo.pdf)	November 10, 2010
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User Manuals & Configuration Guides

BroadSoft Configuration Guide for SmartNode SmartWare (/manuals/BroadSoft_PartnerConfigGuide_Patton_SmartNode.pdf)	December 2, 2013
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- > VoIP Appliances (/ip-pbx/#products)
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