G.703/E1 Miniature Baluns

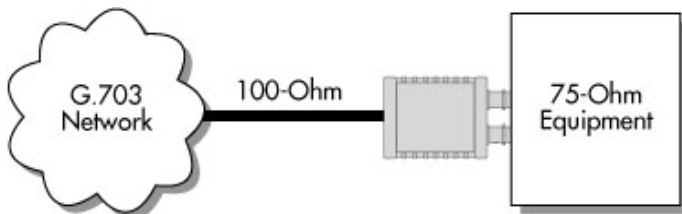**Connect-IT 462 High Speed (8 Mbps) G.703 Balun**

Now You Can Solve Mismatches Between Coax and Twisted Pair G.703 Terminations!

Overview

The Patton Model 462 is a miniature G.703 balun that allows 75-ohm coax hardware to communicate with 100-ohm twisted-pair equipment.

The Model 462 specifically addresses the ONP requirement that European PTTs offer 100-ohm twisted-pair terminations to their customers. Some PTTs and private carriers are standardized on 75-ohm coax, or have customers whose CPE has only 75-ohm coax connections. The Model 462 presents a ready solution to this termination mismatch. Supporting E1 data rates to 8 Mbps, the Model 462 receives 75-ohm signals and converts them to 100-ohm for transmission over a network or reception by a CPE (see diagram below). The signals output by the Model 462 are scaled to match the pulse shape requirements specified by the CCITT G.703 standard.

The Model 462 can perform 100-ohm to 75-ohm signal conversion as well, giving the device a dual role.

Features

- Data Rates to 8 Mbps
- 75-hm Dual-Coax to 100-Ohm Twisted-Pair
- Bi-Directional Signal Conversion
- No AC Power or Batteries Needed
- Male or Female Coax BNC Connectors Available
- Ultra-Miniature Enclosure
- **Made in the USA**ufacturing process delivers high-quality networking solutions with reliability you can trust.

Specifications

Transmission Line: CCITT G.703 (unstructured)

Data Rate: 8 Mbps

75-Ohm Connection: Dual coax BNC connectors, male or female (RG 59 or 2002 coax)

100-Ohm Connection: Shielded RJ-45 jack (internal terminal block included)

Power Supply: none required

Link-to-Data Isolation: 500 volts AC/DC

Operating Temperature: 0° to 50°C (32° to 122°F)

Dimensions: 2.7" (6.86 cm) L x 1.7" (4.32 cm) W x 0.8" (2.03 cm)

Ordering

#	Model #	Description	Availability
1	462F	BALUN,G.703, 8Mbps,75/100 OHM	Special Order
2	462M	BALUN,G.703, 8Mbps,75/100 OHM	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.
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.

Related Products

Model 1001MP16 (/products/product_detail.asp?id=29)   16-Slot Universal Mounting Panel

Backgrounders
FiberPlex Capabilities Guide (/backgrounders/FiberPlex_Capabilities_Statement.pdf)   October 6, 2017

Certifications
Declaration of Conformity - Data Communications Devices (/certifications/00109D1-001P.pdf)   July 16, 2018

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

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

Model 462 & 463 Manual (/manuals/462_3.pdf)   January 18, 1999

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