G.703/E1 Miniature Baluns

Connect-IT 460, 460MC & 465 G.703 Balun

Connect⇋IT

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

Overview

The Patton Model 460 series baluns are miniature G.703 baluns that allows 75 ohm coax hardware to communicate with 120 ohm twisted pair equipment. The Model 460 specifically addresses the ONP requirement that European PTTs offer 120 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 460 presents a ready solution to this termination mismatch. Supporting E1 data rates to 2.048 Mbps, the Model 460 receives 75 ohm signals and converts them to 120 ohm for transmission over a network or reception by a CPE. The signals output by the Model 460 are scaled to match the pulse shape requirements specified by the CCITT G.703 standard. The Model 460 can perform 120 ohm to 75 ohm signal conversion as well, giving the device a dual role

Features

- Data Rates to 2.048 Mbps
- 75 Ohm Dual Coax to 120 Ohm Twisted Pair
- Bi-Directional Signal Conversion
- No AC Power or Batteries Needed
- **(Model 460)** Male or Female Coax BNC Connectors
- **(Model 460MC)** Male or Female Coax BNC Connectors with Built-in Cables
- **(Model 465)** Male or Female Coax 1.6/5.6 Connectors
- Ultra-Miniature Enclosure
- **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.

Model 460MC
G.703 Balun, 2 Mbps,
With Built-in Cables
(75-Ohm to 120-Ohm)

Model 460
G.703 Balun, 2 Mbps
(75-Ohm to 120-Ohm

Model 465
G.703 Balun, 2 Mbps
(1.6/5.6 Connectors)

Specifications

Transmission Line: CCITT G.703 (unstructured)
Data Rate: 2.048 Mbps
75 Ohm Connection: Dual BNC (460) or 1.6/5.6 coax connectors, male or female
120 Ohm Connection: Shielded RJ-45 jack (standard) or External Terminal Block
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) D

Ordering

#	Model #	Description	Availability
1	11758-01	6" COAX CABLE, RG-62 A/U,75 OHM Male BNC to Male BNC	General Availability
2	460F	G.703 BALUN 75/120 OHM Female BNC	General Availability
3	460F-1-15M	G.703 BALUN 75/120 OHM Female BNC, DB15 CABLE	Special Order
4	460F-TBP	G.703 BALUN 75/120 OHM W/TERM BLOCK	Special Order
5	460M	G.703 BALUN 75/120 OHM Male BNC	Special Order
6	460MC	G.703 BALUN 75/120 OHM WITH DUAL BNC 6" COAX CABLES	General Availability
7	460MC-8	G.703 BALUN 75/120 OHM WITH DUAL BNC 8" COAX CABLES	Special Order
8	460M-TBP	G.703 BALUN 75/120 OHM W/TERM BLOCK	Special Order
9	460R/16	G.703 BALUN PANEL	Special Order
10	465F	G.703 BALUN 75/120 OHM,DUAL FEMALE 1.6/5.6	Special Order
11	465MC	G.703 BALUN 75/120 OHM, WITH DUAL 1.6/5.6; 6" COAX CABLES	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 460 Series Manual, Rev. G (/manuals/460.pdf)	September 15, 2004
Model 460 Series Manual, Rev. E (/manuals/460-e.pdf)	February 23, 2000
Model 460RC Manual (/manuals/460rc.pdf)	March 13, 1998

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