

Products (/products/) > Connectivity (/products/network-connectivity/) > Baluns (/products/network-connectivity/#3) > G.703/E1 Miniature Baluns (/products/network-connectivity/#3) > Connect-IT 430 View Printable (/products/product_detail.asp?id=332&v=print)

G.703/E1 Miniature Baluns

Connect-IT 430 G.703 E1/E2 Toolless IDC G.703/G.704 Balun



Connect \leftrightarrow IT

The Patton 430 Single Port E1/E2 Balun Series provides 75/120-Ohm conversion in an ultra-miniature enclosure

Overview

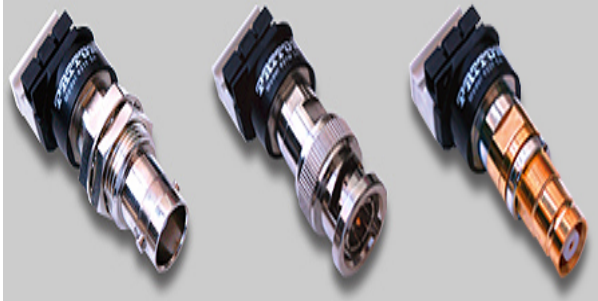
Patton's new G.703/G.704 toolless insulating displacement connecting (IDC) module baluns are ideal for carriers seeking a cost-effective, space-efficient, and proven method of impedance matching 75-Ohm coax to 120-Ohm single-conductor connections. The baluns provide transparent bi-directional signal conversion with no AC or battery power required.

Various industry standard types of coaxial connectors (75 Ohm) are available including male and female combinations of BNC, 1.6/5.6, 1.0/2.3, and Type 43. The 3-pole toolless IDC connector used for wrapping single-conductor connections (120 Ohm) utilizes a slit in the cable anchor to allow the cable to be inserted

Features

- Convert 75 Ohm Coax to 120 Ohm Twisted Pair--Resolves impedance mis-match between twisted pair equipment and coax cabling
- Ultra-miniature size--Provides maximum density when installed into a 19-inch (48.3cm) panel
- Industry Standard Coax Connectors--A host of coax connectors including BNC, 1.6/5.6, 1.0/2.3 and Type 43 are available
- Low Insertion Loss--Fully meets ITU-T (CTR-12) G.703 standards
- No Power Required--Operation is transparent to data, no AC/DC power is required

after termination. The toolless IDC connector is also offset so that a cable can be positioned between baluns on the DDF/patch panel as required. The toolless IDC connector is clearly labeled A, B, and G (Ground) to make installation more convenient.



**Model
431F**

Single Port
BNC Female
Panel Mount
to Toolless
IDC Balun

**Model
431M**

Single Port
BNC Male
Panel Mount
to Toolless
IDC Balun

**Model
432F**

Single Port
1.6/5.6
Female Panel
Mount to
Toolless IDC
Balun



**Model
432M**

Single Port
1.6/5.6 Male
Panel Mount
to Toolless
IDC Balun

**Model
433F**

Single Port
1.0/2.3
Female Panel
Mount to
Toolless IDC
Balun

**Model
433M**

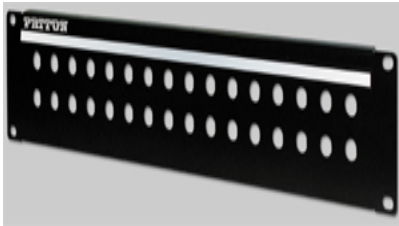
Single Port
1.0/2.3 Male
Panel Mount
to Toolless
IDC Balun



**Model
434F**

**Model
434M**

Single Port Type 43 Female Panel Mount to Toolless IDC Balun	Single Port Type 43 Male Panel Mount to Toolless IDC Balun
---	--

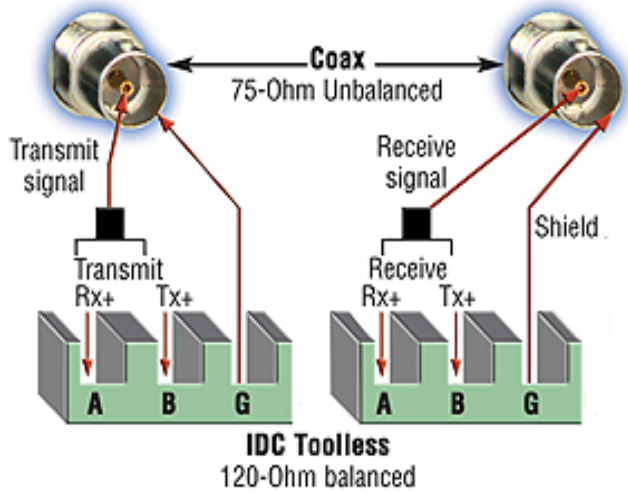


Model 430R

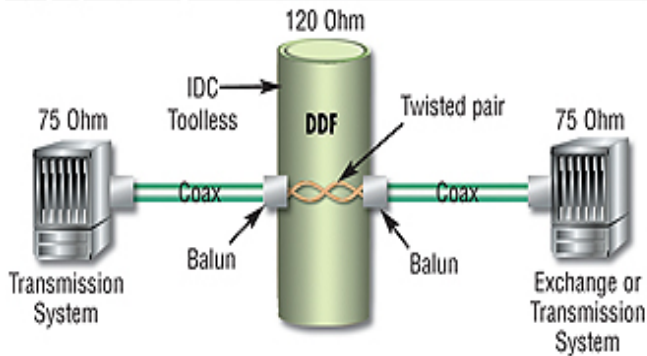
The Patton Model 430R houses up to 32 individual toolless 431F IDC baluns for 16 E1/E2 circuits. The 430R fits into standard 19-inch racks and includes a dry-erase tab for easy and clear marking

Applications

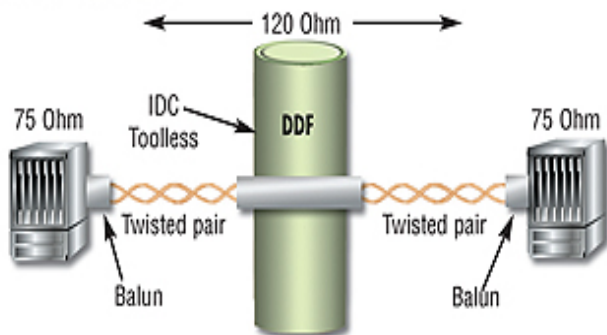
Patton's Ultra-miniature G.703 toolless IDC baluns are fully shielded and are ideal in telecom applications where space is a premium. The Model 430 Series can be panel mounted or cable mounted and feature IDC terminations which allow installation without the need of special tools. Converting your G.703 signal from coax to twisted-pair enables the use of high density IDC modules in the Digital Distribution Frames (DDF), which significantly increases the available density.



DDF jumper reconfiguration with 120 Ohm



Typical DDF application



Patton's Toolless IDC Connector Features

- 1 Specially designed toolless IDC connector for easy connection of unterminated cable.
- 2 IDC toolless connector clearly marked A, B and G for easier installation.



- 3 Slit in cable anchor allows cable to be inserted after termination.
- 4 Offset IDC allows cable to be positioned between baluns on DDF as required.

Specifications

Transmission Line: ITU-T G.703/G.704 2-8 Mbps

75-Ohm Connection: BNC; 1.6/5.6, 1.0/2.3, or Type 43

120-Ohm Connection: 3 pole IDC toolless

Insertion Loss: Max 0.2dB @ 2Mbps; Max 0.3dB@ 8Mbps

Cross Talk: Better than -80dB from 0.1 to 12MHz between any two baluns on a DDF strip with 15 mm centers

Return Loss: -29dB @ 2Mbps; -21dB @ 8Mbps

Dimensions: 19L x 1.5W x 3.8H inch (48.3 L x 48.3 W x 8.9 H cm)

Weight: 0.4 lbs (0.18kg)

Ordering

#	Model #	Description	Availability
1	430R/16	16 E1 (32 balun slots) PORT 2U BNC IDC BALUN RACK	Special Order
2	431F	G.703/G.704 Balun, BNC Female bulkhead Tooless IDC with metal thread	Special Order
+ Accessories			
3	431M	G.703G.704 Balun, BNC Male to Tooless IDC	Special Order
4	432F	G.703/G.704 Balun, 1.6/5.6 Female bulkhead Tooless IDC	Special Order
5	432M	G.703/G.704 Balun, 1.6/5.6 Male Tooless IDC	Special Order
6	432R/16	16 PORT 2U 1.6/5.6 IDC BALUN RACK	Special Order
7	433F	G.703G.704 Balun, 1.0/2.3 Female bulkhead to Tooless IDC	Special Order
8	433M	G.703/G.704 Balun, 1.0/2.3 Male to Tooless IDC	Special Order
9	434F	G.703/G.704 Balun, BT43 Female to Tooless IDC	Special Order
10	434M	G.703/G.704 Balun, BT43 Male bulkhead to Tooless IDC	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. 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. 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. 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. 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.
SVC-ENHWAR2 (/support/support-warranty.asp)	2 Year Enhanced Warranty	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.
SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	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.

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.

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
Model 430 Series Datasheet (/datasheet/430_datasheet.pdf)	November 12, 2009
Model 430 Series Datasheet (A4 page size) (/datasheet/430-A4_datasheet.pdf)	November 12, 2009

Product & Solution Guides

User Manuals & Configuration Guides

BroadSoft Configuration Guide for SmartNode SmartWare
(/manuals/BroadSoft_PartnerConfigGuide_Patton_SmartNode.pdf)

December 2, 2013

Company (/company/)

- > Contact Us (/company/contact-us.asp)
- > About Patton (/company/about.asp)
- > Jobs (/company/careers/)
- > Capabilities
(/products/special/services.asp)
- > Quality & Responsibility
(/company/environment/)
- > Legal (/legal/)

News & Events

- > Press Room/Releases (/press/)
- > Training & Events (/training/)
- > Library/Downloads (/resources/)

Partners & Resources

(/partners/)

- > Partner Programs (/partners/)
- > Resources (/resources/)
- > Blog (https://blog.patton.com)

Products

(/products/)

Unified Communications

- > VoIP Gateways (/voip-gateway/#products)
- > VoIP Routers (/voip-router/#products)
- > VoIP IADs (/voip-iad/#products)
- > SIP eSBCs (/session-border-controller/#products)
- > VoIP Appliances (/ip-pbx/#products)
- > SS7 Media Gateways (/ss7-gateway/#products)

Software and Cloud

- > Virtual SBC (/virtual-sbc/#products)
- > Virtual Access Router (/virtual-access-router/#products)
- > VPN Server (/vpn-server/#products)
- > IPv6 to IPv4 Network Gateway (/network-gateway/#products)
- > Intelligent Edge Orchestration (/intelligent-edge-

Connectivity

- > Line Drivers / Short Range Modems
(/products/netwc-connectivity/#11)
- > Fiber Serial DataCom (RS-232/422/530/188)
(/products/netwc-connectivity/#27)
- > Ethernet Over Fiber
(/products/netwc-connectivity/#23)
- > Multiplexers & Sharing Devices
(/products/netwc-connectivity/#12)
- > Fiber Telecom (T1/E1/PRI, Analc and ISDN)
(/products/netwc-connectivity/#28)
- > Pro AV Live and Media Broadcast Fiber Systems
(/products/netwc-connectivity/#29)
- > SFP (Small Form

orchestration/#products)Pluggable) Modul
> NFV & SDN and Kits
(/nfv/#products) (/products/netwc
Network Access connectivity/#30)
> Ethernet Extenders > Fiber Alarming,
(/ethernet- Notification, Rela
extender/#products) and Control
(/products/netwc
> PoE Products connectivity/#24)
(/poe/#products)
> xDSL Products > Other Network
(/xdsl/#products) Extenders
(/products/netwc
> Routers connectivity/#13)
(/router/#products)
> Dial-Up Access (/dial- > Defense/Securiti
up/#products) Fiber
Communications
(/products/netwc
Sunset Products connectivity/#22)
(/products/sunset- > Baluns
products.asp) (/products/netwc
connectivity/#3)
> Surge Protector
Opto-Isolators
(/products/netwc
connectivity/#15)
> DataTaps, Teste
Adapters, Rack Ki
(/products/netwc
connectivity/#7)
> Interface
Converters
(/products/netwc
connectivity/#10)
> Fiber Rack and
Enclosure System
(/products/netwc
connectivity/#25)
> Fiber Repeaters
and Wavelength
Division

Multiplexers (WDI
(/products/netwc
connectivity/#26)
> Waveguide RF
Filters
(/products/netwc
connectivity/#31)

Support & Services (/support/)

- > Support Home (/support/)
- > Support Portal (/support/#portal)
- > Premium Support
(/support/support.asp)
- > Software Upgrades
(/support/upgrades/)
- > Warranty Services (/support/support-
warranty.asp)
- > Returns & RMAs (/returns/)
- > Manuals (/manuals/)

Special Projects Group (SPG) (/products/special)

- > SPG Home (/products/special/)
- > Services & Capabilities
(/products/special/services.asp)
- > Projects
(/products/special/projects.asp)
- > Facilities
(/products/special/facilities.asp)



Select your country ▼

Sales: sales@patton.com
(mailto:sales@patton.com) / +1 301 975
1000
Support: support@patton.com
(mailto:support@patton.com) / +1 301 975
1007

Join Our Email List

sue.chu@icomtechinc.com

Subscribe

Have Us Contact You

sue.chu@icomte or Phone Number

Submit

Connect With Us



(<https://twitter.com/pattonconnect>)




(<https://www.linkedin.com/companies/patton-electronics>)



(<https://www.facebook.com/PattonElectronics>)



Copyright © 2001–2020 Patton Electronics Co., All Rights Reserved.

| [Sitemap \(/company/sitemap.asp\)](/company/sitemap.asp) | [Legal \(/legal/\)](/legal/) | [Privacy Policy \(/legal/privacy.asp\)](/legal/privacy.asp) | [Disclaimer \(/legal/terms-conditions.asp\)](/legal/terms-conditions.asp) | 

(<https://twitter.com/pattonconnect>) 

(<https://www.facebook.com/PattonElectronics>) 

(<https://www.youtube.com/user/pattonelectronicsc>)

 (<https://www.linkedin.com/companies/patton-electronics>)  (</news.rss>)