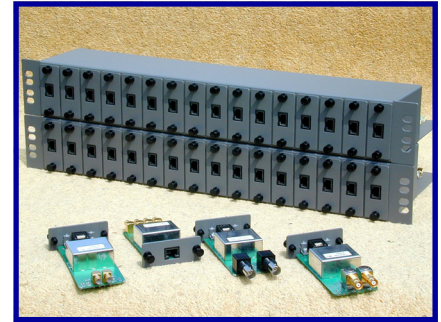


Modular Balun System for G.703 Telecom Applications

Features:

- Connects 75 ohm coaxial and 120 ohm twisted pair cabling systems
- Supports all G.703 data rates up to 34 Mbps
- Snap-in modules are easy to install and maintain
- Field expandable and upgradable
- Various grounding and screening options



Cambridge Connectors' new Modular G.703 Balun System provides a flexible and future-proofing system that can be installed and maintained by carriers, service providers and installers. The series comprises various enclosures with a full range of compatible modules of different functionality and interconnection hardware.

Enclosures and Accessories

Description	Part Number
16 way 19" 1½U enclosure with rear cable management tray	NPGZM-16-NJ
½U high front mounting cable management tray	NMB-0057
Blanking plate for use with enclosures	NMB-0054

Earthing is provided via mounting brackets and/or terminal at the rear of the chassis. If required additional grounding can be provided with a rear mounted common ground bonding strip. This allows modules to be selectively grounded to a common rail. Contact Sales office for further information:-

Modules

The modules, which require no power, are all interchangeable and offer a variety of connector systems including BNC, Type 43, HDC43, 1.6/5.6 1.0/2.3 and RJ45 (screened and unscreened). Screen grounding options are factory set or can be customer configurable. With quick release fastenings, modules can be installed or swapped in a matter of seconds.



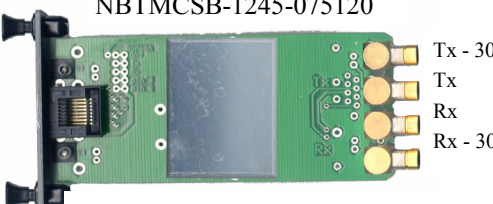
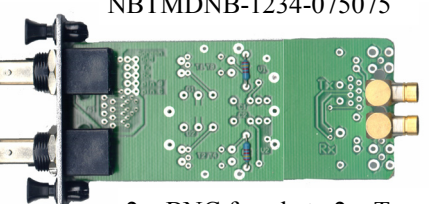
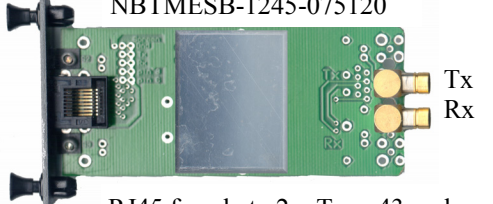
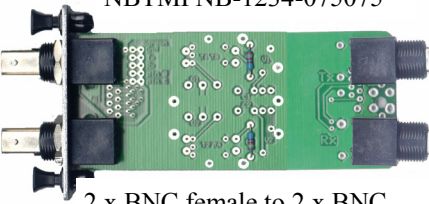
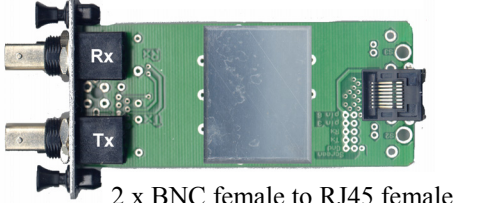
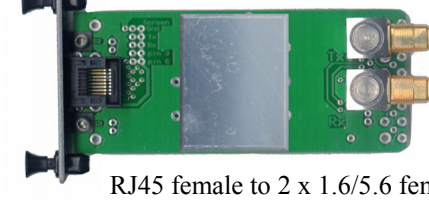
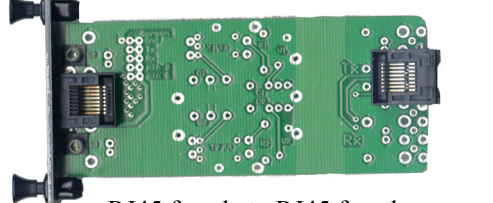
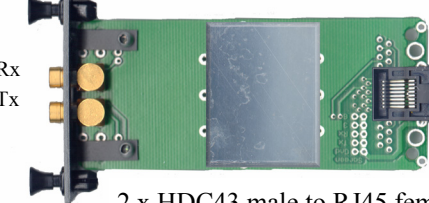
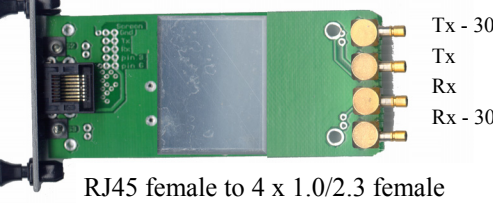

In addition to the standard Dual Path modules a range of "Quad" Path modules is also available. Using high density type 43 connectors or 1.0/2.3 connectors these modules provide 2 complete Rx and Tx paths thus providing 32 ways in a standard 16 way 19" enclosure.

The default screen connectors are:- RJ45 screen, Coax Tx screen, Coax Rx screen, RJ45 pins 3 and 6. Alternative configurations are available at time of ordering if required. Modules are also available with onboard protection against Lightning and Transient spikes. For further information contact Sales office:-

THIS PRODUCT RANGE IS "END OF LIFE" AND SHOULD NOT BE USED FOR NEW DESIGNS. LIMITED STOCK MAY BE AVAILABLE PLEASE CONTACT SALES OFFICE FOR MORE INFORMATION

Modular Balun System for G.703 Telecom Applications

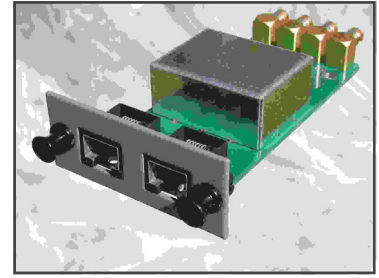
Dual Path G.703 Balun and Adaptor Modules

<p>NBTMASB-1245-075120</p>  <p>Tx Rx</p> <p>RJ45 female to 2 x BNC</p>	<p>NBTMBSB-1234-075075</p>  <p>Tx - 30dB Tx Rx Rx - 30dB</p> <p>2 x BNC female to 4 x HDC 43 male</p>
<p>NBTMCSB-1245-075120</p>  <p>Tx - 30dB Tx Rx Rx - 30dB</p> <p>RJ45 female to 4 x HDC 43</p>	<p>NBTMDNB-1234-075075</p>  <p>2 x BNC female to 2 x Type 43 male</p>
<p>NBTMESB-1245-075120</p>  <p>Tx Rx</p> <p>RJ45 female to 2 x Type 43 male</p>	<p>NBTMFNB-1234-075075</p>  <p>2 x BNC female to 2 x BNC</p>
<p>NBTMGSB-1245-075120</p>  <p>Rx Tx</p> <p>2 x BNC female to RJ45 female</p>	<p>NBTMHSB-1245-075120</p>  <p>Tx Rx</p> <p>RJ45 female to 2 x 1.6/5.6 female</p>
<p>NBTMJNB-1245-120120</p>  <p>RJ45 female to RJ45 female</p>	<p>NBTMKSB-1245-075120</p>  <p>Rx Tx</p> <p>2 x HDC43 male to RJ45 female</p>
<p>NBTMMSB-1245-075120</p>  <p>Tx - 30dB Tx Rx Rx - 30dB</p> <p>RJ45 female to 4 x 1.0/2.3 female</p>	<p>NBTMMSB-1245-075120</p>  <p>Tx Rx</p> <p>RJ45 female to SMB female</p>

Modular Balun System for G.703 Telecom Applications

Quad Path G.703 Balun Modules

- Doubles wiring densities
- Saves rack space
- Reduces installation time
- HDC43, 1.0/2.3 connector styles



NBTMLSB-1245-075120

	Tx 1	1,2
	Rx 1	4,5
	Tx 2	1,2
	Rx 2	4,5

2 x RJ45 female to 4 x HDC 43 male

RJ45 pairs
pins
1,2
4,5
1,2
4,5

NBTMZ-1437-075120

	1,2
	3,6
	4,5
	7,8

RJ45 female to 4 x HDC 43 male

RJ45 pairs
pins
1,2
3,6
4,5
7,8

NBTMVS-1245-075120

	Tx 1	1,2
	Rx 1	4,5
	Tx 2	1,2
	Rx 2	4,5

2 x RJ45 female to 4 x 1.0/2.3 female

RJ45 pairs
pins
1,2
4,5
1,2
4,5

NBTMXSB-1437-075120

	1,2
	3,6
	4,5
	7,8

RJ45 female to 4 x 1.0/2.3 female

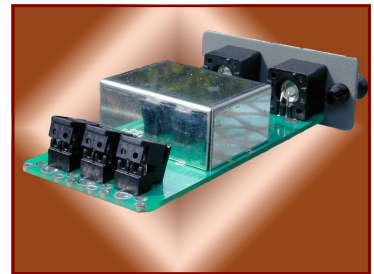
RJ45 pairs
pins
1,2
3,6
4,5
7,8

IDC Option

- Snap click system
- No tooling
- Fast termination
- Re-usable

Twisted pair wires can easily be connected; no special tooling is necessary and, if required, the wires can be removed and re-terminated at any time.

NBTMXSB-1437-075120



NBTMNSB-1234-075120

	Tx pair
	Screen/Drain
	Rx Pair

2 x BNC female to IDC

NBTMPSB-1234-075120

	Tx pair
	Screen/Drain
	Rx Pair

2 x HDC 43 to IDC

NBTMRSB-1234-075120

Tx	Tx pair
Rx	Screen/Drain
	Rx Pair

2 x 1.6/5.6 to IDC

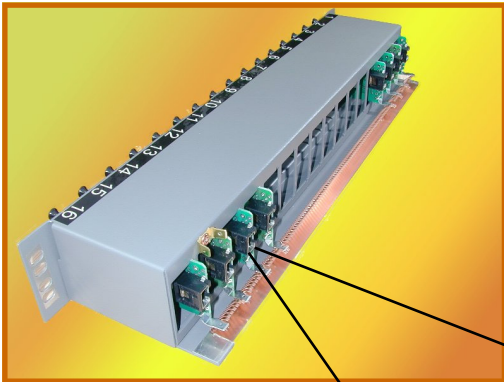
NBTMSSB-1234-075120

Tx	Tx pair
Rx	Screen/Drain
	Rx Pair

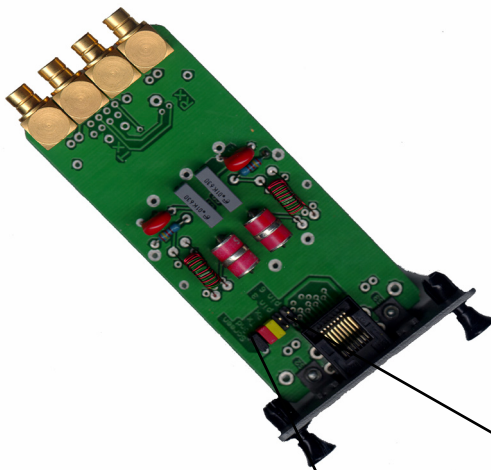
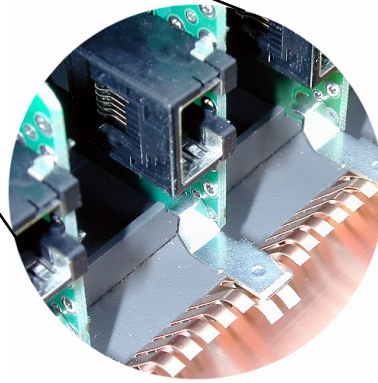
2 x 1.0/2.3 to IDC

Modular Balun System for G.703 Telecom Applications

Ground Bonding Option



In normal use, the flexible grounding and earthing options of Cambridge Connectors' G.703 Modular Balun System are sufficient to meet most requirements. Where additional grounding is required a 19" rack housing with a rear mounted common ground bonding rail can be supplied. This allows modules to be selectively grounded to a common rail.



Modules are supplied with default screen connections but can be factory configured to your requirements or provided with user selectable links for any combination of grounding and screening:-

Default shield connection to:
 RJ45 screen for F/STP installations
 Coax Transmit (Tx) screen
 Coax Received (Rx) screen
 RJ45 pins 3,6
 Chassis ground for bonding requirements.



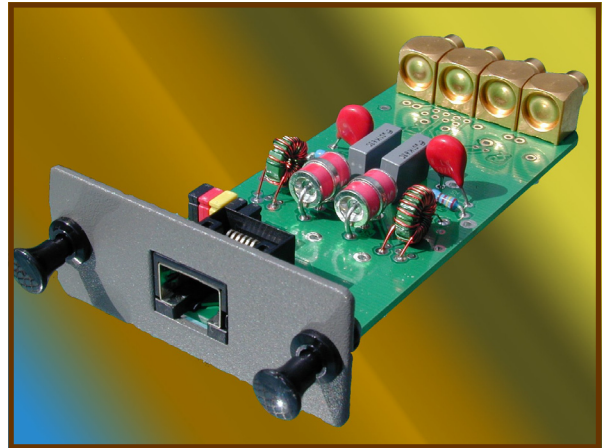
Modular Balun System for G.703 Telecom Applications

Module Protection Options

- Lightning Surges
- Transient Spikes

Most modules are now available with on-board protection against surges caused by lightning strike and transient spikes caused by local electrical equipment.

Protection against lightning surges is provided by GDT's (gas discharge tubes) VDR's (voltage dependent resistors) provide the protection against transient spikes.



Typical Specification	
Working Voltage max	26 Vdc/20 Vac
Isolation Voltage	>500 V
Screen Coupling	0.1 μ F
Transient Protection	
Protection Voltage	< 37V
Transient 8/20 μ s	250A
Transient Energy 10/1000 μ s	1.2 Joules
Discharge Protection	
dc spark over	230 V
Impulse at 1 kV/ μ s	< 630V
Impulse discharge 8/20 μ s	10 kA

Other specifications are available on request.

Modules can also be offered with a variety of screen grounding options.

Please contact the Network Products Sales desk.