



ORION TELECOM NETWORKS INC.

16 x E1 75 Ohms (BT43 Male Connector) Patch Panel with Additional Hi-Z Monitoring Port

Data Sheet & Product Brochure

Headquarters: Phoenix, Arizona

Orion Telecom Networks Inc.

20100, N 51st Ave, Suite B240,
Glendale AZ 85308

Phone: +1 480-816-8672

Fax: +1 480-816-0115

E-mail: sales@oriontelecom.com

Website: <http://www.oriontelecom.com>

Regional Office: Miami, Florida

Orion Telecom Networks Inc.

4000 Ponce de Leon Blvd. Suite 470,
Coral Gables, FL 33146 U.S.A.

Phone: 1-305-777-0419,

Fax: 1-305-777-0201

E-mail: sales@oriontelecom.com

Website: <http://www.oriontelecom.com>

**16 x E1 75 Ohms (BT43 Male Connector)
Patch Panel with Additional Hi-Z Monitoring Ports**

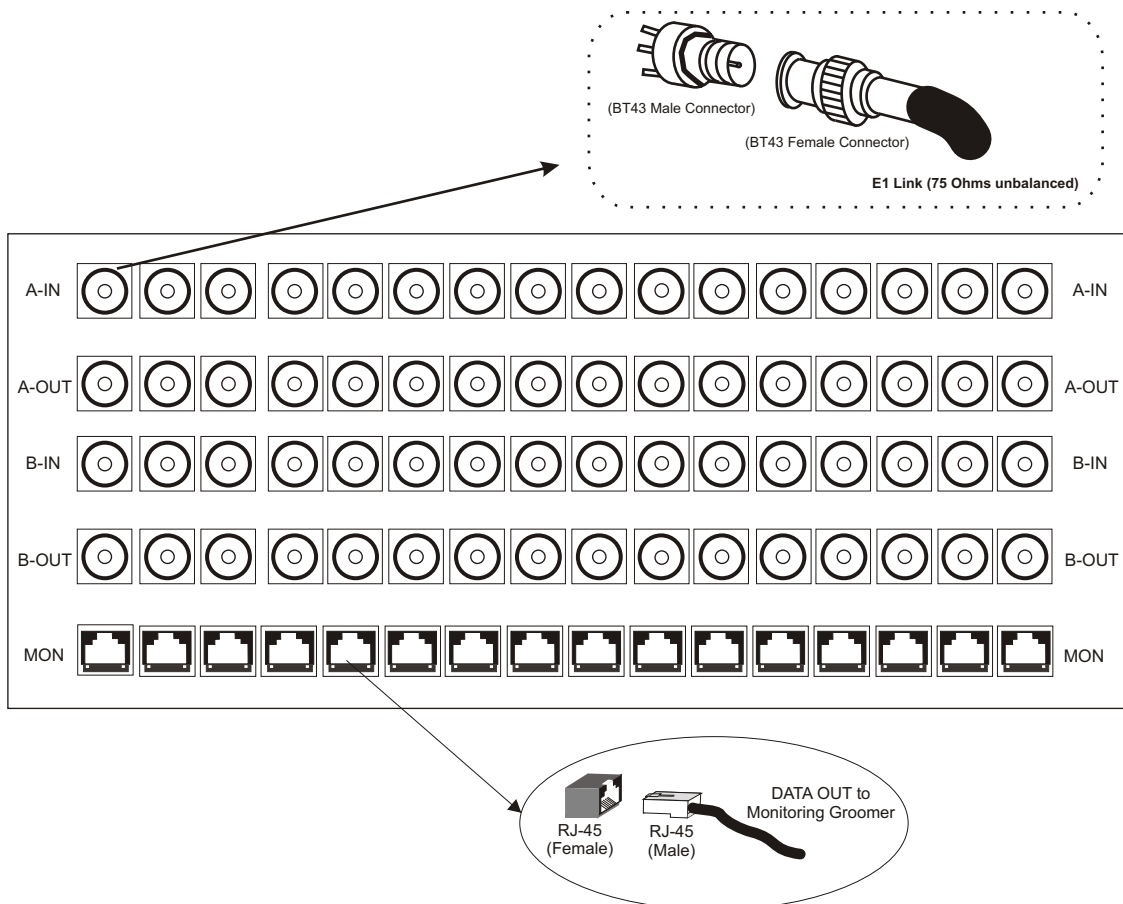
What does it do ?

The 16 x E1 75 Ohms (BT43 Male Connector) Patch Panel Hi-Z Monitoring Port is primarily designed for applications where 75 Ohms E1 circuits are required to be “patched” as well as simultaneously “tapped” for non-intrusive monitoring applications.

Application Where is it used ?

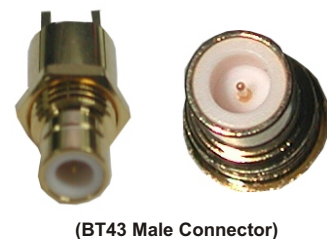
The 16 x E1 75 Ohms (BT43 Male Connector) Patch Panel Hi-Z Monitoring Port primarily designed to patch up to 16, E1 circuits. It also, simultaneously, provides up to 16 high-impedance (Hi-Z) outputs on it's monitoring (MON) port(s) from which, both the transmit (Tx) and the receive (Rx) signals of the patched 75 Ohms E1 links can be “tapped non-intrusively” [i.e without disturbing or loading the active E1 link(s) in any manner], for parallel connections to E1 Groomers, Probes or Analysers.

Used for E1 Patching and Monitoring Application



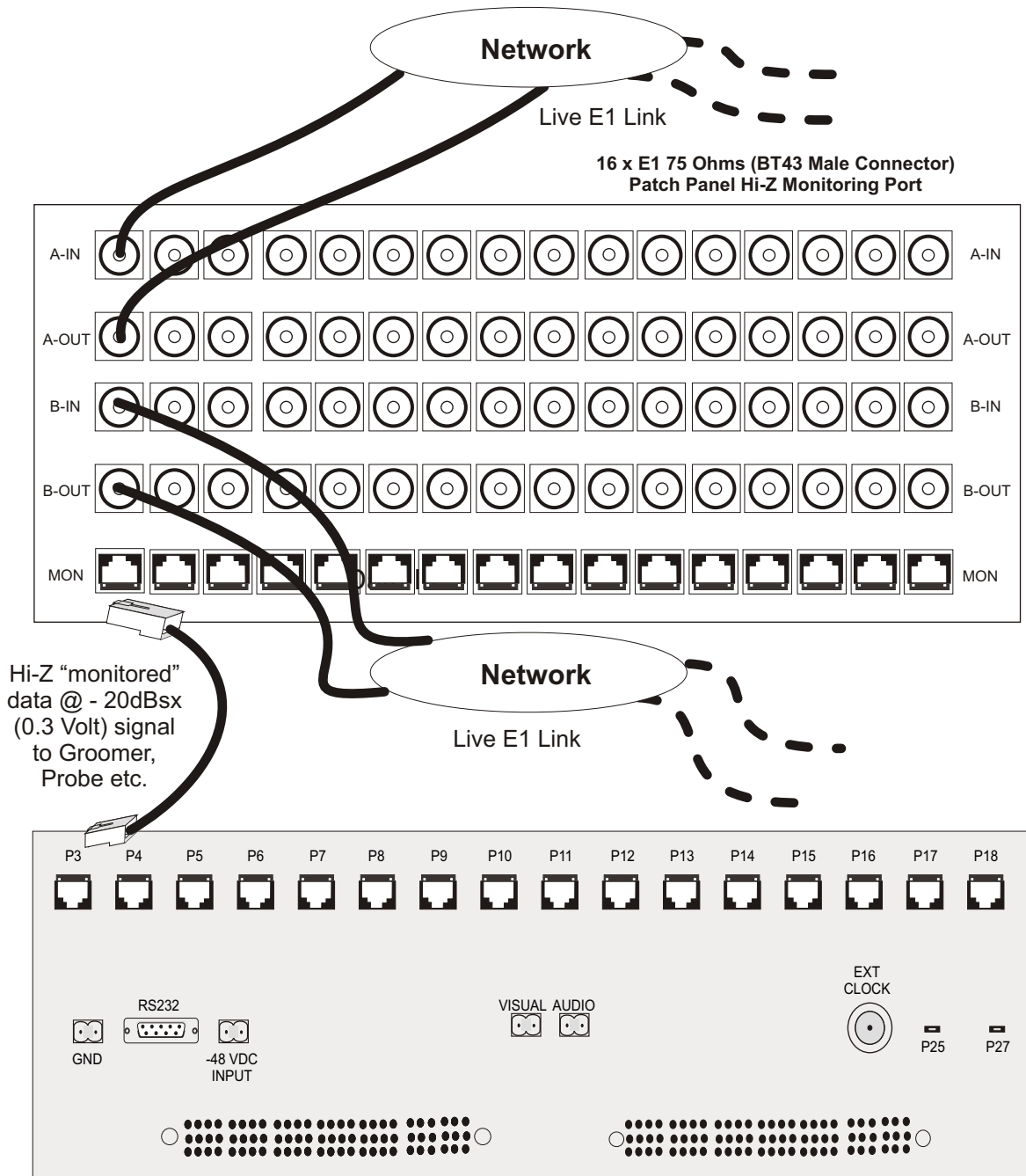
RJ-45 (Female) Pinout Details

RJ-45 (Female) Pin #	BT43 Male Connector
1	A-OUT/B-IN
2	A-OUT/B-IN
4	A-IN/B-OUT
5	A-IN/B-OUT



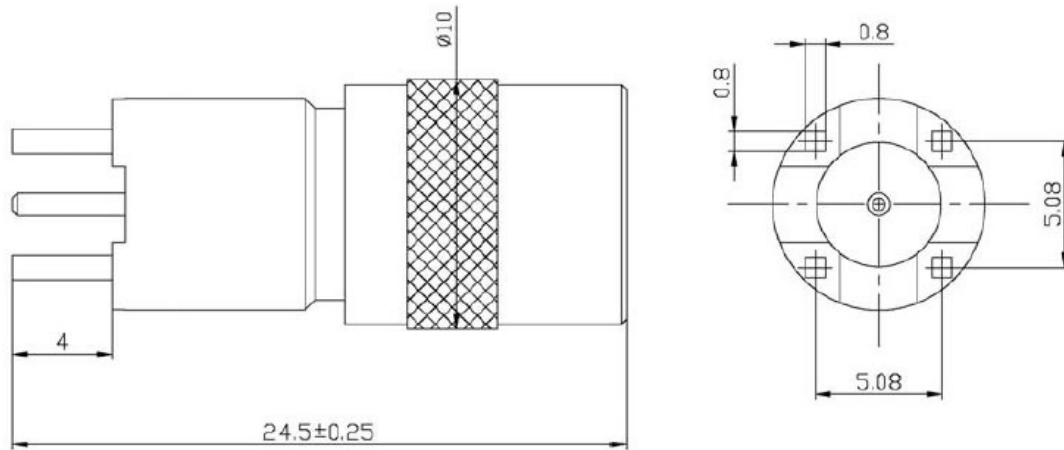
The BT43 Male Connectors are used to patch 75 ohms live E1 links which are required to be monitored. The hi-impedance (Hi-Z) monitored outputs are extracted on 120 ohms RJ-45 ports.

Connecting the “Monitoring” (high impedance) E1 Port on the 16 x E1 75 Ohms (BT43 Male Connector) Patch Panel with Hi-Z Monitoring Port to the E1 Groomer, Probe or Analyser



VCL-MegaConnect Groomer Equipment

Connector Details



Mechanical Drawing - BT43 Male Connector

Material and Plating:

Body	Brass, gold plated
Center contacts	Phosphor bronze, gold plated
Insulators	PTFE

Electrical Characteristics:

Characteristic impedance	75 Ohms
Working Voltage	500 V
Frequency range	0-3 GHz
Contact resistance initial value	Center contact: ≤ 5 mohm Outer contact: ≤ 1 mohm
Dielectric withstanding voltage	1500 V
Insulation resistance	≥ 5000 M Ohms min.

Mechanical Specification

Rack Mounting	Standard 19 Inch. DIN Rack
Height	132 mm. (3U)
Depth / Width	45 mm.
Length	485 mm. (with mounting brackets)
Weight	2.6 kg.

Ordering Information

16 x E1 75 Ohms (BT43 Male Connector) Patch Panel with Additional Hi-Z Monitoring Ports			
S.No.	Part #	Product Description	Qty
1.	VCL-1476-MON-075-BT43M-16	16 x E1, 75 Ohms BT43 (M) High Impedance (HiZ) Monitoring Patch Panel, 19" Shelf 3U High Mount Version [BT43 / RJ45 cables not included]	1

Technical specifications are subject to changes without notice.
Revision 3 - May 29, 2012

Headquarters: Phoenix, Arizona

Orion Telecom Networks Inc.

20100, N 51st Ave, Suite B240,
Glendale AZ 85308
Phone: +1 480-816-8672
Fax: +1 480-816-0115
E-mail: sales@oriontelecom.com
Website: http://www.oriontelecom.com

Regional Office: Miami, Florida

Orion Telecom Networks Inc.

4000 Ponce de Leon Blvd. Suite 470,
Coral Gables, FL 33146 U.S.A.
Phone: 1-305-777-0419,
Fax: 1-305-777-0201
E-mail: sales@oriontelecom.com
Website: http://www.oriontelecom.com