



ORION TELECOM NETWORKS INC.

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

Data Sheet & Product Brochure

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

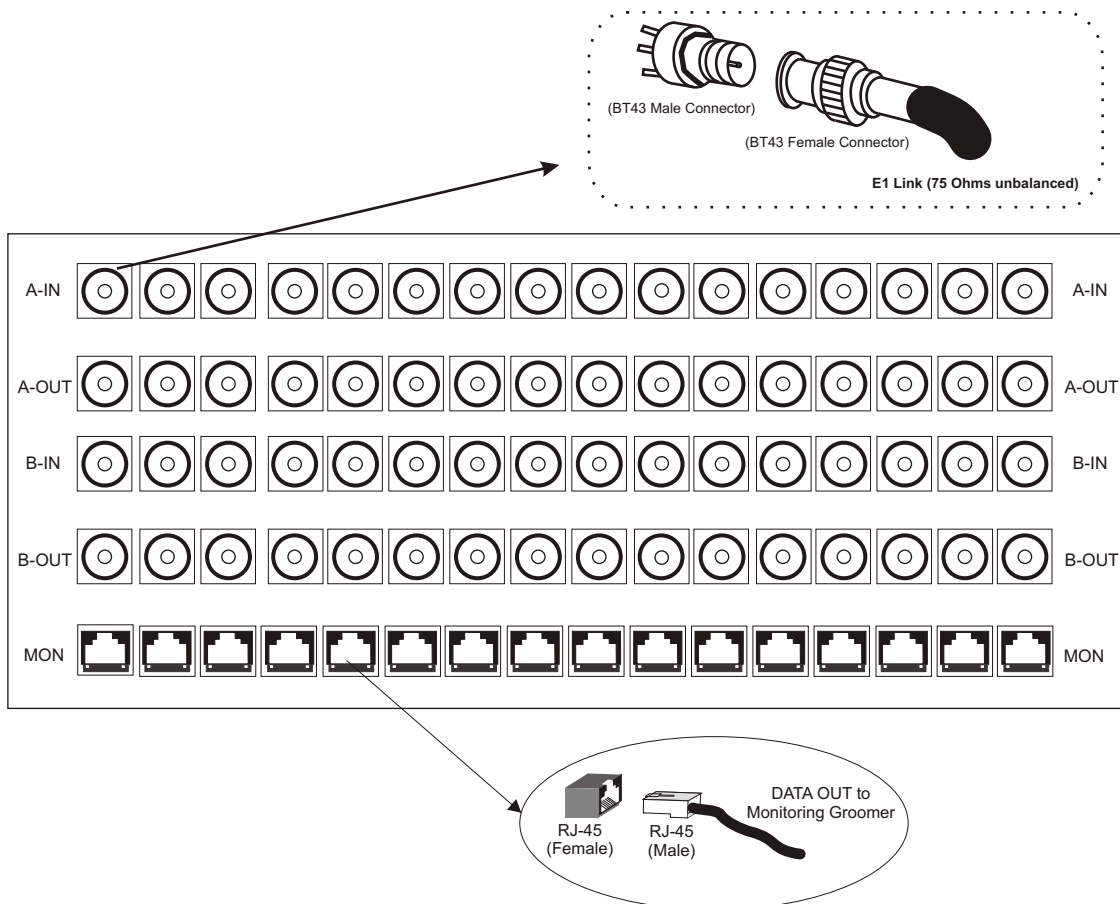
What does it do ?

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 ?

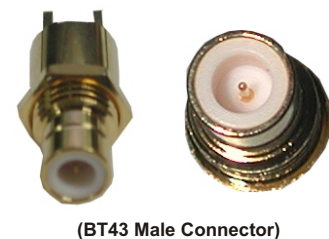
The 16 x E1 75 Ohms (BT43 Male Connector) Patch Panel Hi-Z Monitoring Port primarily designed to patch up to 16, E1 circuits. It also, simultaneously, provides up to 16 high-impedance (Hi-Z) outputs on it's monitoring (MON) port(s) from which, both the transmit (Tx) and the receive (Rx) signals of the 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



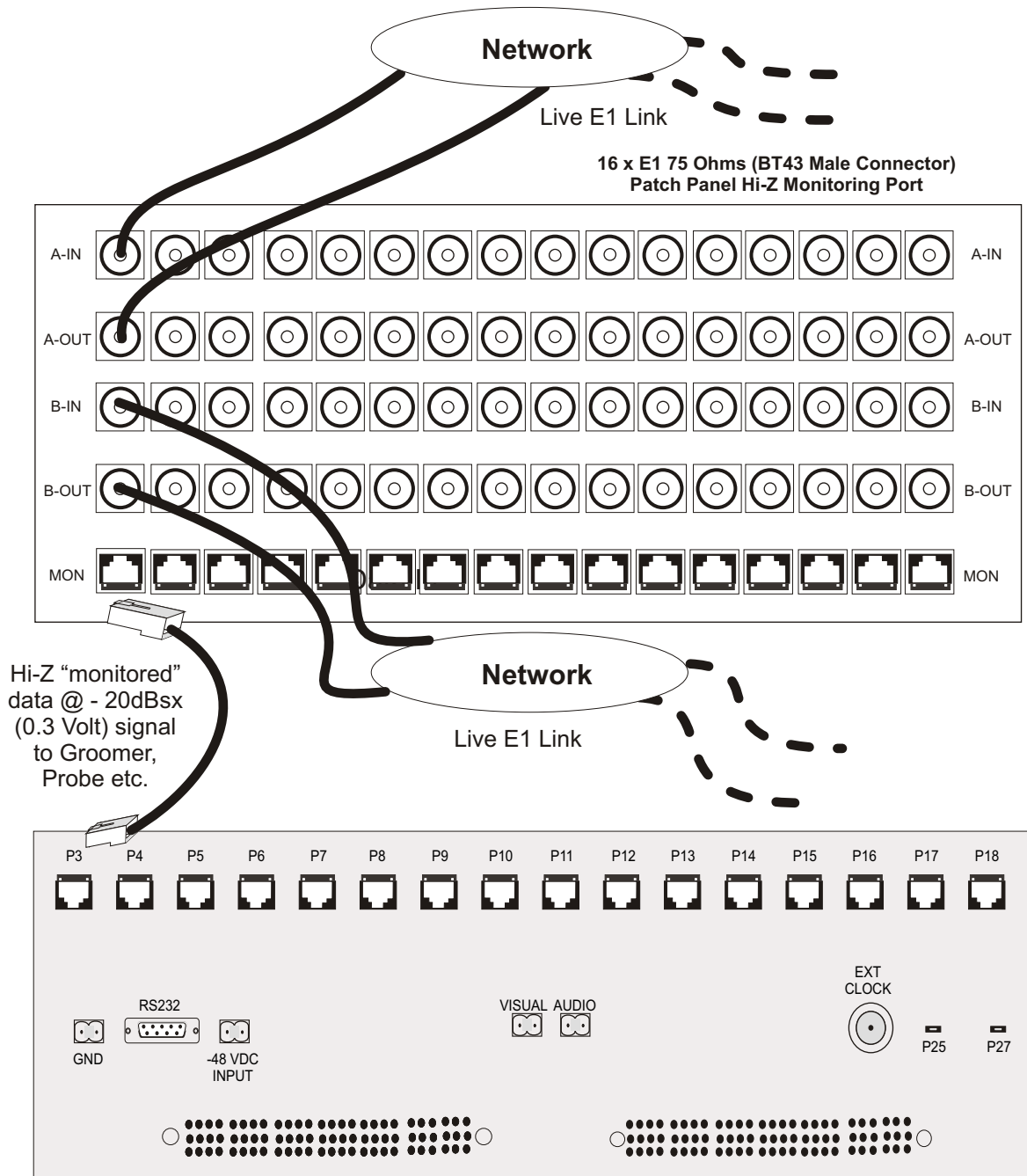
RJ-45 (Female) Pinout Details

| 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 |



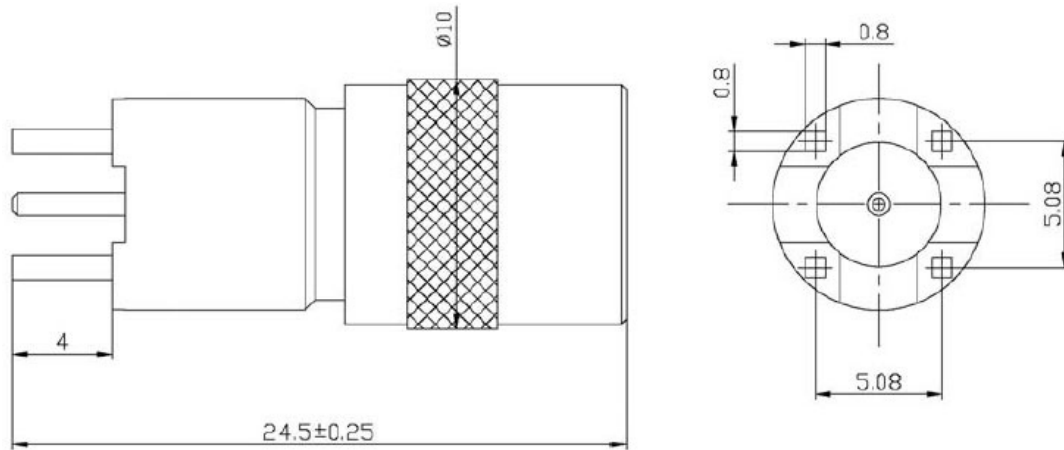
The BT43 Male Connectors are used to patch 75 ohms live E1 links which are required to be monitored. The hi-impedance (Hi-Z) monitored outputs are extracted on 120 ohms RJ-45 ports.

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-1476-75-Hi-Z-PP-BT43M | 16 x E1 75 Ohms (BT43 Male connector) Patch Panel with Additional Hi-Z Monitoring Ports | 1 |

Technical specifications are subject to changes without notice.
Revision 2 - March 10, 2010

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