



# **ORION TELECOM NETWORKS INC.**

## **16 x E1 75 Ohms (BNC Female Connector) Patch Panel with Additional Hi-Z Monitoring Port**

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Data Sheet & Product Brochure

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

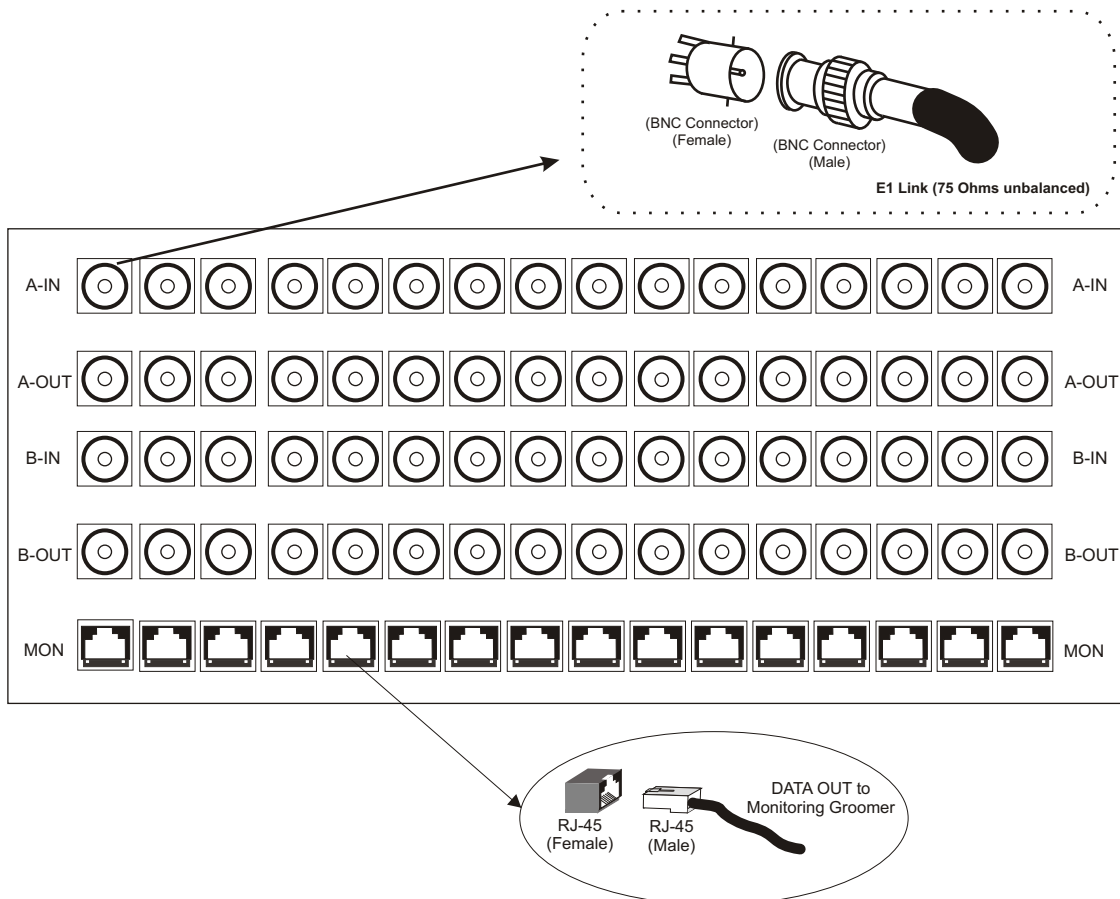
**What does it do ?**

The 16 x E1 75 Ohms (BNC Female 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 ?**

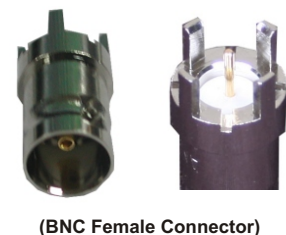
The 16 x E1 75 Ohms (BNC Female Connector) Patch Panel Hi-Z Monitoring Port primarily designed to patch up to 16, E1 circuits. It also, simultaneously, provides up to 16 high-impedance (Hi-Z) outputs on it's monitoring (MON) port(s) from which, both the transmit (Tx) and the receive (Rx) signals of the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



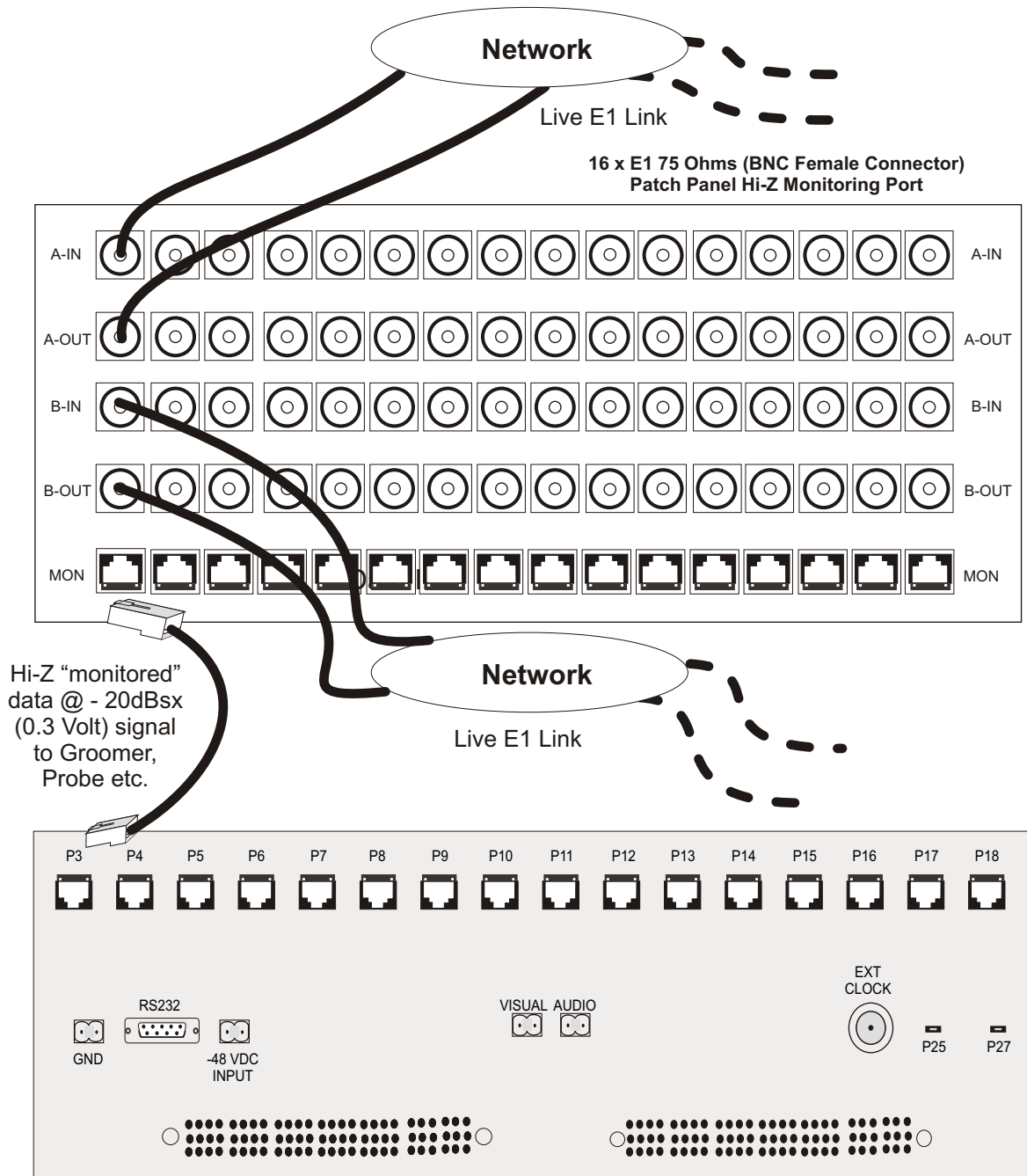
**RJ-45 (Female) Pinout Details**

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



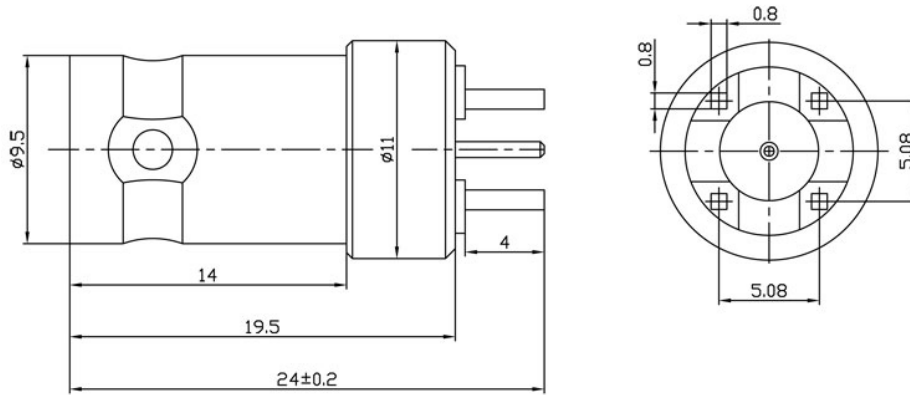
The BNC Female Connectors are used to patch 75 ohms live E1 links which are required to be monitored. The hi-impedance (Hi-Z) monitored outputs are extracted on 120 ohms RJ-45 ports.

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



**VCL-MegaConnect Groomer Equipment**

**Connector Details**



**Mechanical Drawing - BNC Female Connector**

**Material and Plating:**

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

**Electrical Characteristics:**

Characteristic impedance	75 Ohms
Working Voltage	500 VRMS
Frequency range	0-1 GHz
Contact resistance initial value	Center contact: 3 Milliohms Max. Outer contact: 2 Milliohms Max.
Dielectric withstanding voltage	1500 Volts
Insulator resistance	5000 megohms 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**

<b>16 x E1 75 Ohms (BNC (F) Connector) Patch Panel with Additional Hi-Z Monitoring Ports</b>			
S.No.	Part #	Product Description	Qty
1.	VCL-1476-75-Hi-Z-PP-BNC-F	16 x E1 75 Ohms (BNC (F) connector) Patch Panel with Additional Hi-Z Monitoring Ports	1

Technical specifications are subject to changes without notice.  
Revision 3 - January 03, 2011

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