



# ORION TELECOM NETWORKS INC.

## 16 x E1 120 Ohms (RJ45) to 75 Ohms (M4 Male Connector) Converter

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Data Sheet & Product Brochure

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**Orion Telecom Networks Inc.**

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**E1, 120 Ohms (RJ45) to E1, 75 Ohms  
(M4 Male Connector) Converter  
19-Inch Rack Mount Version:**

**E1, 120 Ohms (RJ45) to E1, 75 Ohms (M4 Male Connector) Converter**

**What does it do?**

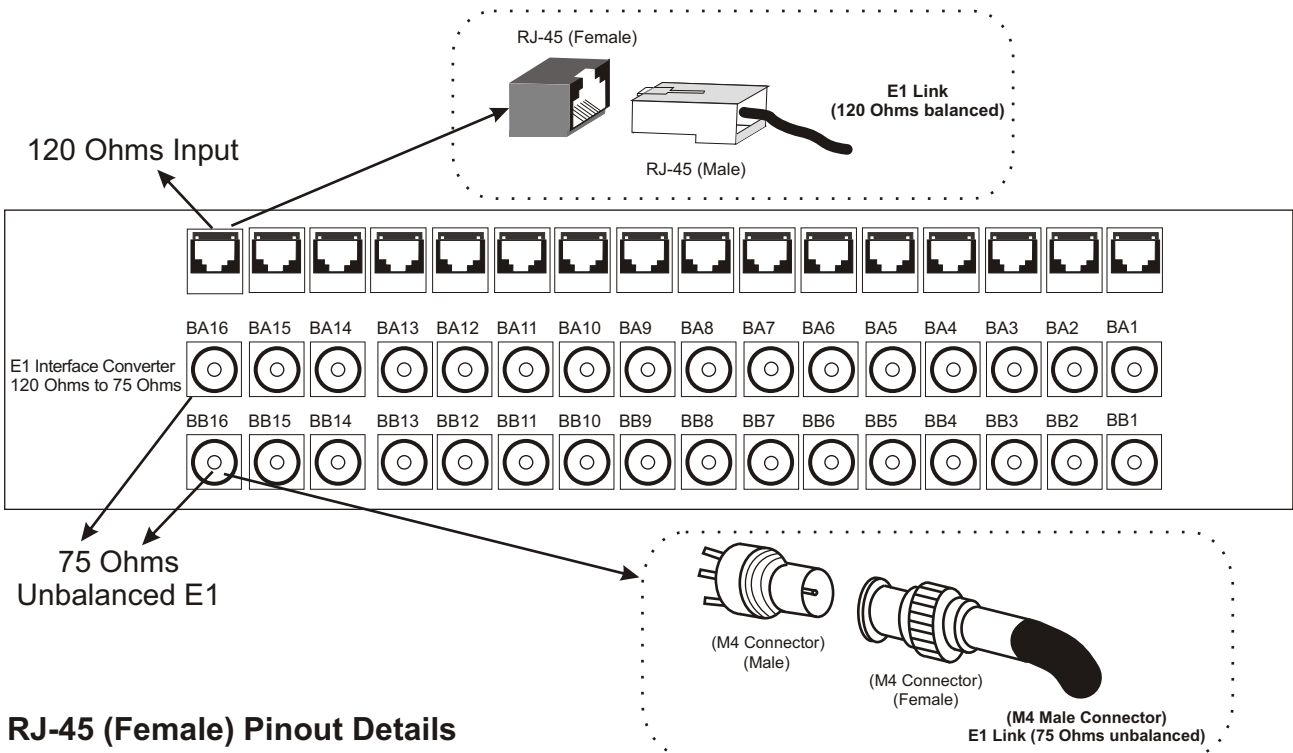
The E1, 120 Ohms (RJ45) to E1, 75 Ohms (M4 Male Connector) Converter, may be used to convert up to 16, E1, 120 Ohms (RJ45) Interfaces to E1, 75 Ohms (M4 Male Connector) Interfaces.

**Application Where is it used?**

The E1, 120 Ohms (RJ45) to E1, 75 Ohms (M4 Male Connector) Converter, may be used in applications where the user requires to convert up to 16 (or fewer), E1, 120 Ohms (RJ45) Interfaces to 16 (or fewer) E1, 75 Ohms (M4 Male Connector) Interfaces.

**Connecting / Converting an E1, 120 Ohms (RJ45) Interface to an E1, 75 Ohms (M4 Male Connector) Interface.**

**120 Ohms/75 Ohms Converter  
19 inch Rack Mount Version**

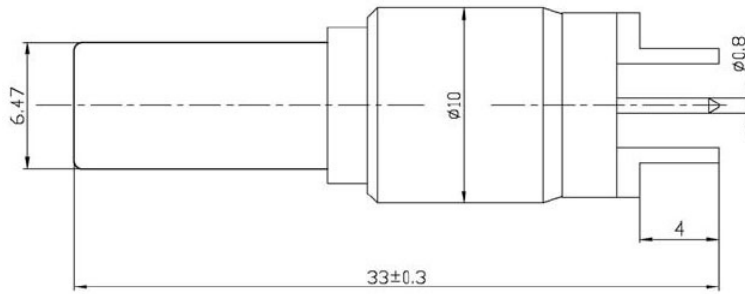


**RJ-45 (Female) Pinout Details**

RJ-45 (Female) Pin #	M4 Male Connector
1	BA
2	BA
4	BB
5	BB



**Connector Details**



**Mechanical Drawing - M4 Male Connector**

**Material and Plating:**

Body	Brass, Gold / Silver plated
Center contacts	Brass, Gold plated
Insulators	PTFE

**Electrical Characteristics:**

Characteristic impedance	75 Ohms	
Rated Voltage	500 V	
Frequency range	Max 1.5 GHz	
Insulation resistance 25-75%RH	10 Gohm	
Insulation resistance 90-95%RH	100 Mohm	
Contact resistance initial value	Centre contact	2 mohm
	Outer contact	1 mohm
	Braid to body	1 mohm
Rated current	5A	
Insertion loss f<500 MHz	Max 0.1 dB	
Voltage proof, contact-contact housing	1.5 kV	

**Environment**

Temperature range 5-100% RH	-40°C to +120°C
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### Mechanical Specification

Rack Mounting	Standard 19 Inch. DIN Rack
Height	90 mm.
Width	45 mm.
Length	485 mm. (with mounting brackets)
Weight	1.4 kg.

### Ordering Information

16 x E1 120 Ohms to 75 Ohms (M4 Male Connector) Converter			
S.No.	Part #	Product Description	Qty
1.	VCL-1105-75/120-CONV-M4M	16 x E1 120 Ohms to 75 Ohms Converter (RJ45 to M4 Male Connector)	1

Technical specifications are subject to changes without notice.  
Revision 2 - January 04, 2010

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