



## **ORION TELECOM NETWORKS INC.**

# **100 Ohm / 120 Ohm Patch Panel**

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## **Product Brochure & Data Sheet**

### **ORION TELECOM NETWORKS INC.**

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Fountain Hills, AZ 85268, USA

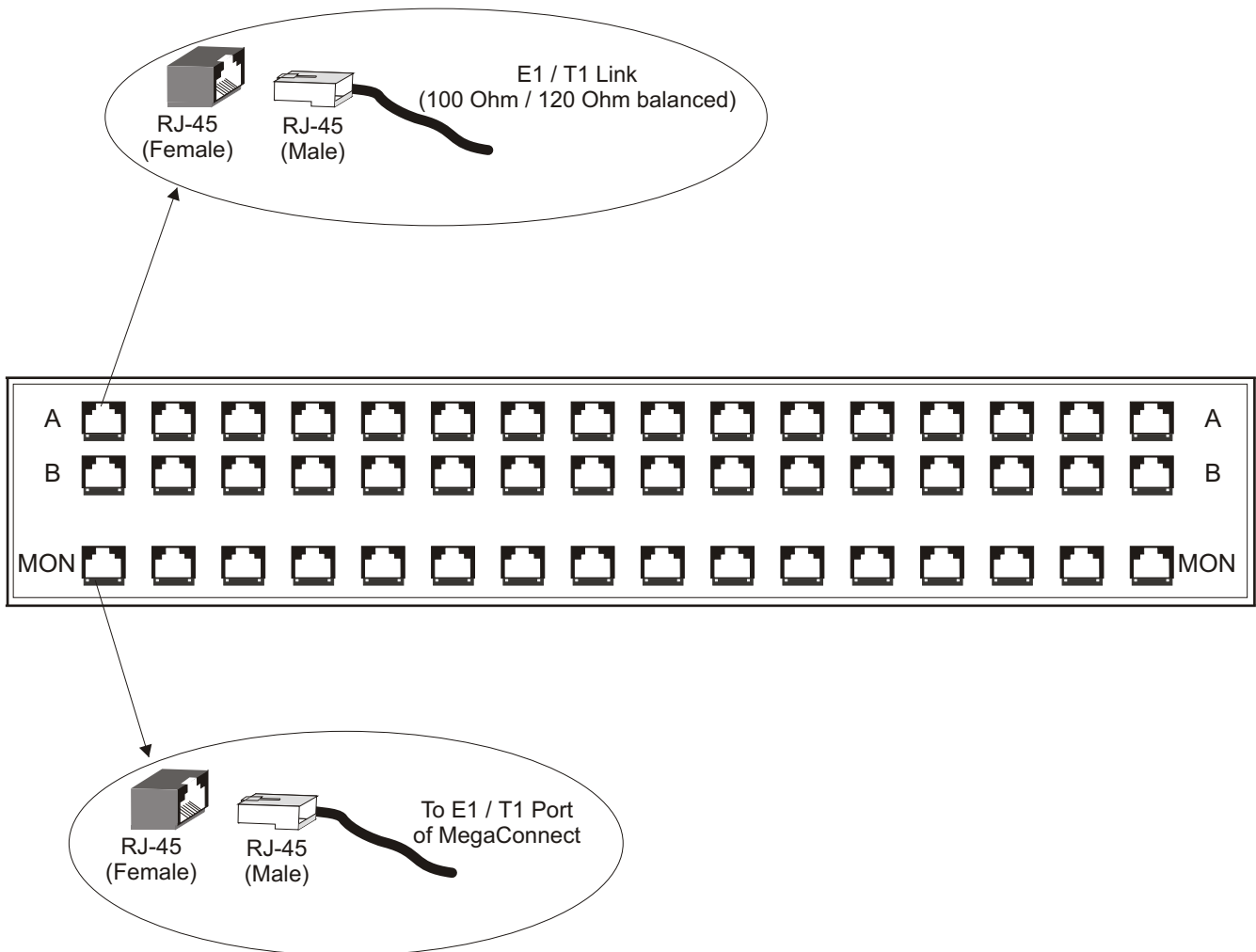
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**VCL 100 Ohm / 120 Ohm Patch-Panel is used for  
T1 / E1 Monitoring Application.  
Connecting 100 Ohm / 120 Ohm Patch Panel to live  
T1 / E1 traffic - Monitoring Application**

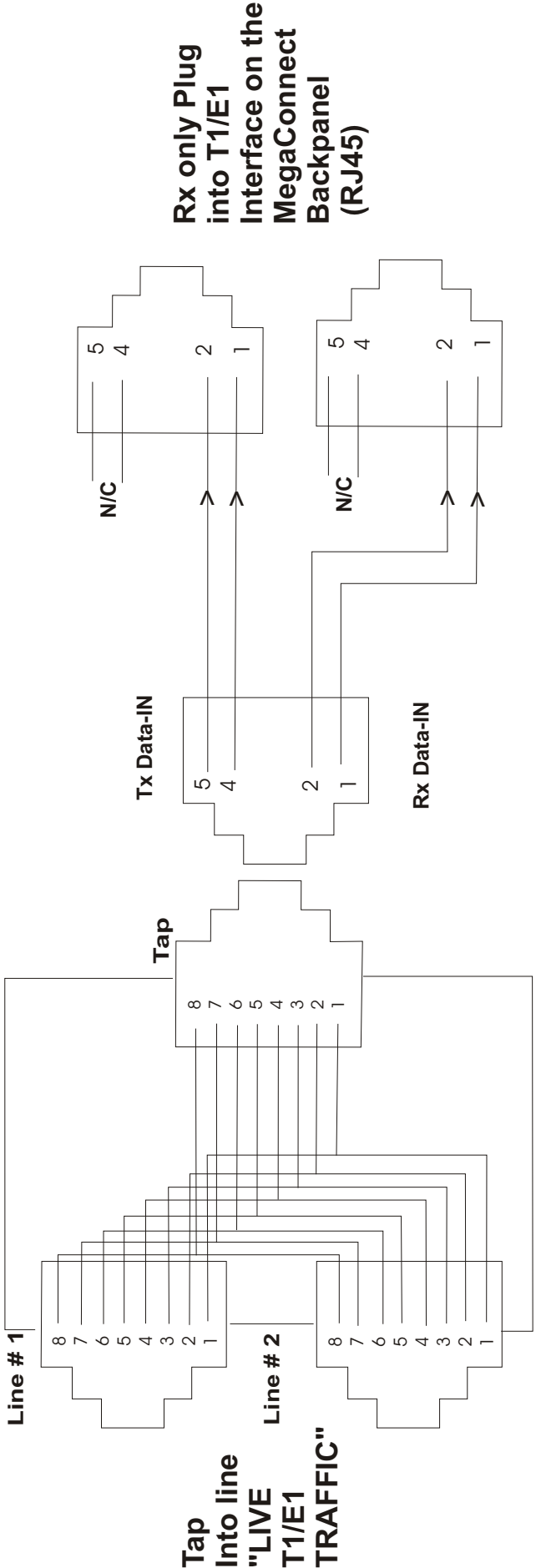


VCL 100 Ohm / 120 Ohm Patch-Panel is used for T1 / E1 Monitoring Application.

The RJ45 Connectors (Row A and Row B) is used for Data IN / Data OUT from the 100 Ohm / 120 Ohm T1 / E1 links which are required to be monitored.

100 Ohm / 120 Ohm RJ45 (Row MON) T1 / E1 of the Patch-Panel will connect to VCL-MegaConnect using "Y" cable. As shown in figure on next page (Page 2).

# TDM T1/E1 Tap with RJ45 Connectors

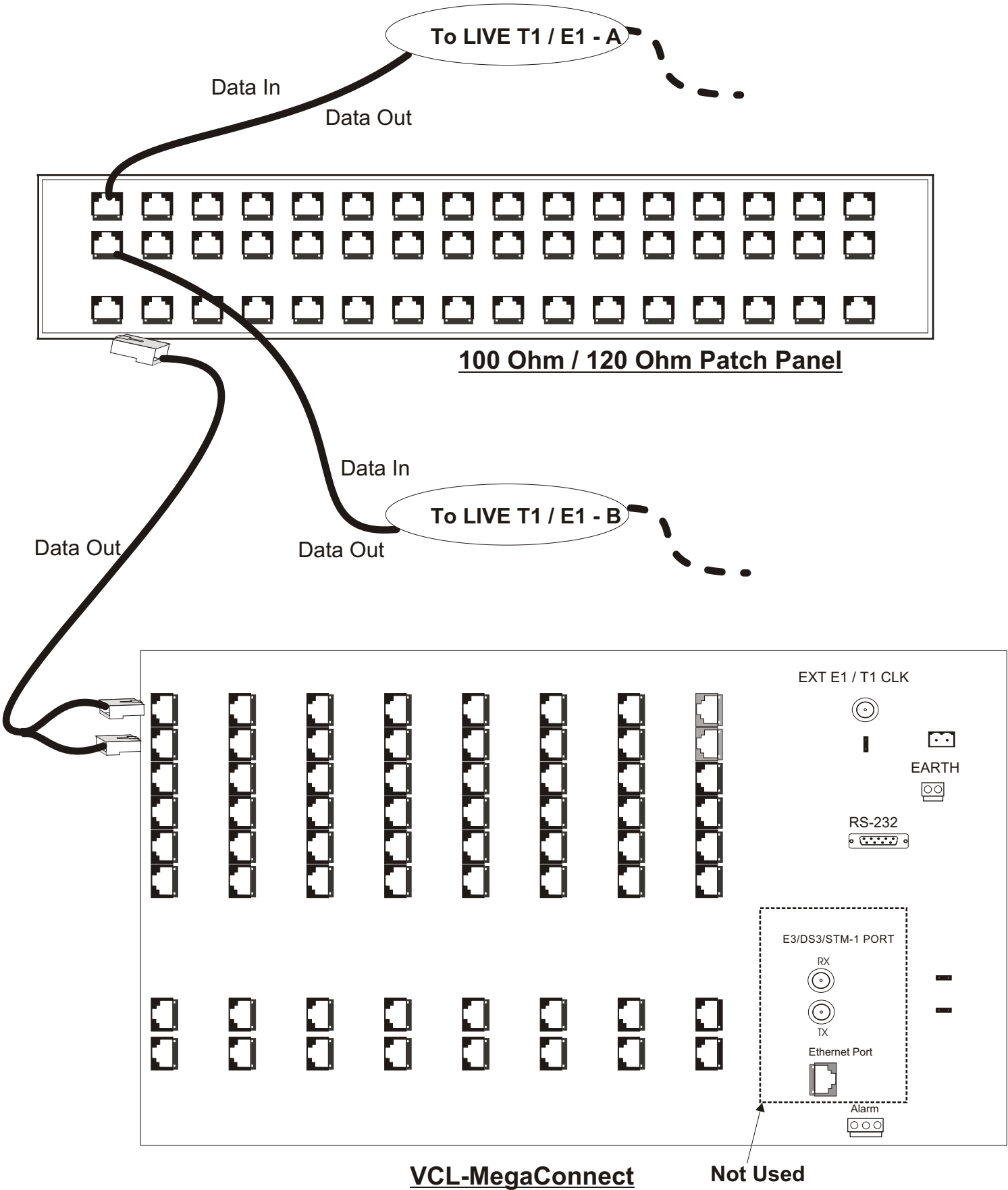


**"Y" Cable  
(Supplied)**

**Orion Patch Panel**

- Cross Cable changes to cross/straight (Line # 1)
- Straight Cable changes to straight/ straight (Line # 2)
- The Hi-Z (432 Ohms Series) resistive path is provided on the MegaConnect T1/E1 Interface card.

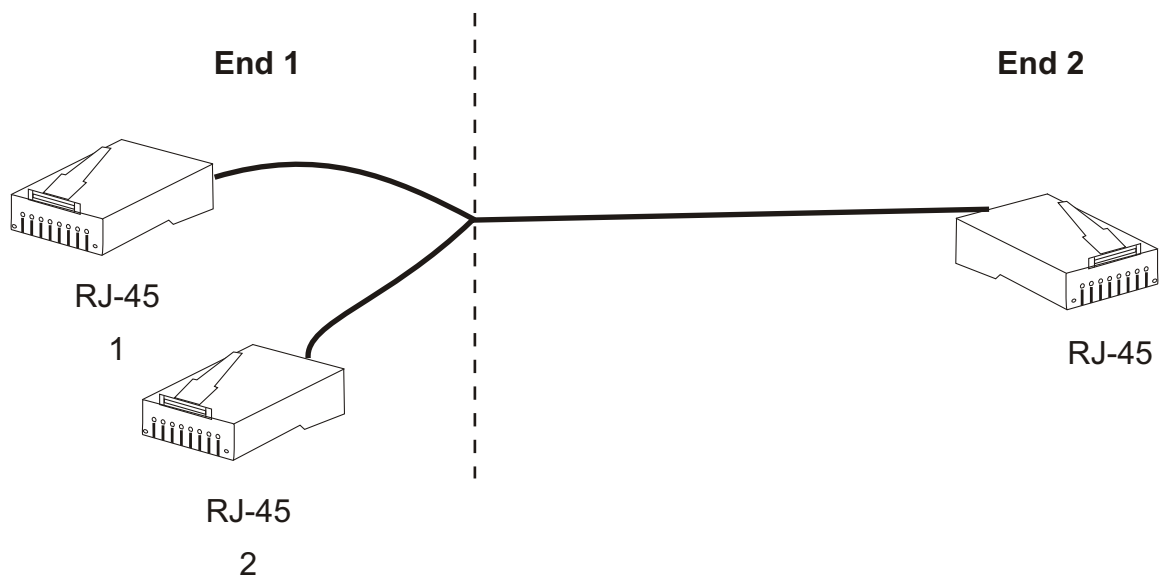
**Typical Connections for 100 Ohm / 120 Ohm T1 / E1 Monitoring**



## MegaConnect Monitoring Cable

End 1	2 RJ-45M (Male)
End 2	RJ-45M (Male)
Type of Cable	Twisted pair multistrand conductor CAT 5 cable
No. of pairs	2
Diameter	24 AWG
Length	3 Meter
Color of Cable	Grey
Connection	As per details given below

End 1					End 2		
RJ-45 (male) Pin #	Signal on RJ-45 (male)	Color of sleeve	Description	Colour	Signal on RJ45(male)	RJ45 (male) Pin #	
RJ-45 1	1	Rx Tip	Twisted pair # 2	Blue	Rx Tip	4	
	2	Rx Ring	Twisted pair # 2	White/Blue	Rx Ring	5	
RJ-45 2	1	Rx Tip	Twisted pair # 1	White/Orange	Tx Tip	1	
	2	Rx Ring	Twisted pair # 1	Orange	Tx Ring	2	



**Note:**

**End-2** of the RJ-45 cable should be connected to the T1 / E1 that is required to be MONITORED through the 100 Ohm / 120 Ohm Patch-Panel.

**End-1** of the RJ-45 cable(s) should be connected to the each T1 / E1 Port of the MegaConnect on the backplane.

Notes : \_\_\_\_\_

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Technical Specifications are subject to change.  
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