



ORION TELECOM NETWORKS INC.

100 Ohm / 120 Ohm Patch Panel

Product Brochure & Data Sheet

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.

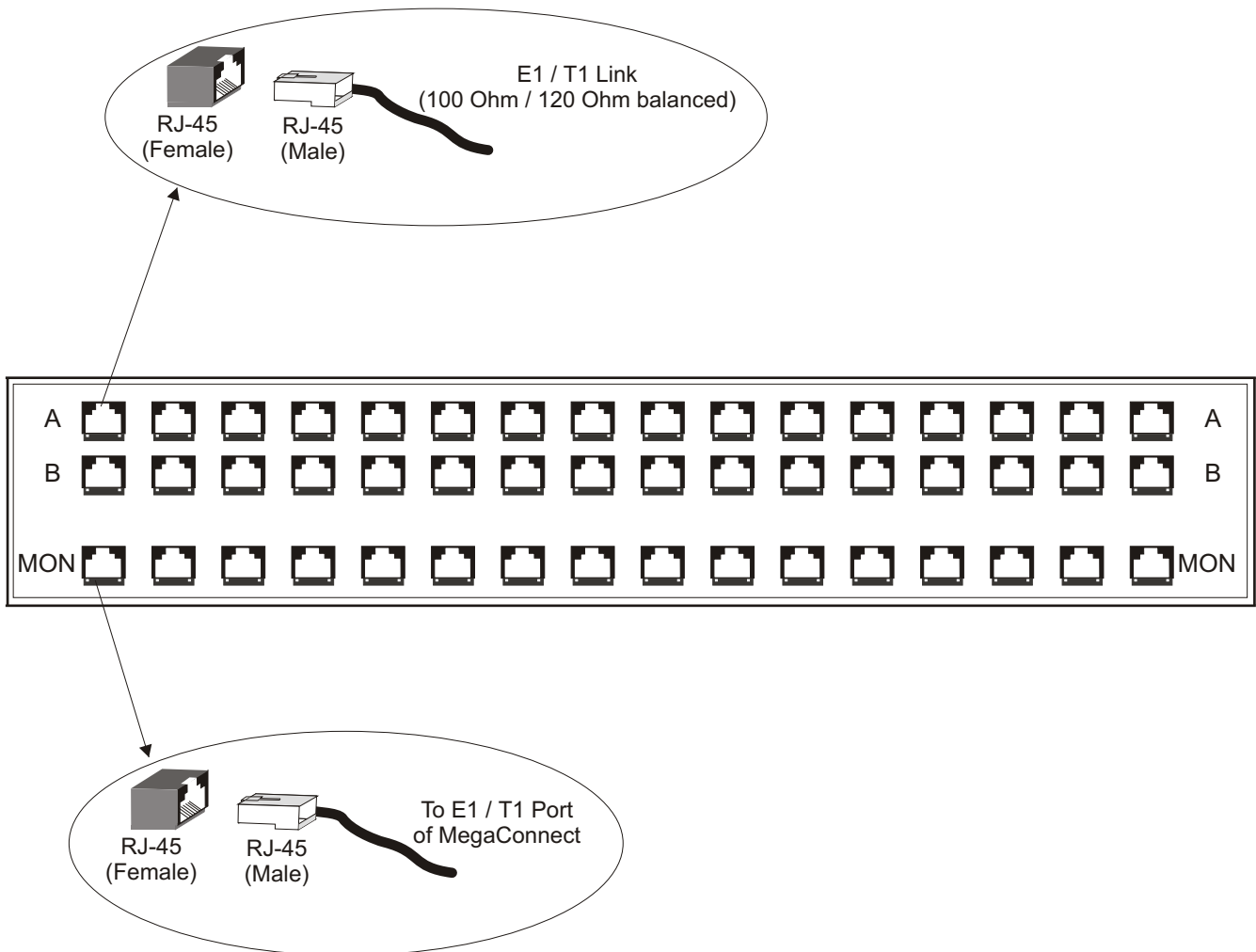
Phone: 1-305-777-0419,

Fax: 1-305-777-0201

E-mail: sales@oriontelecom.com

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

**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**

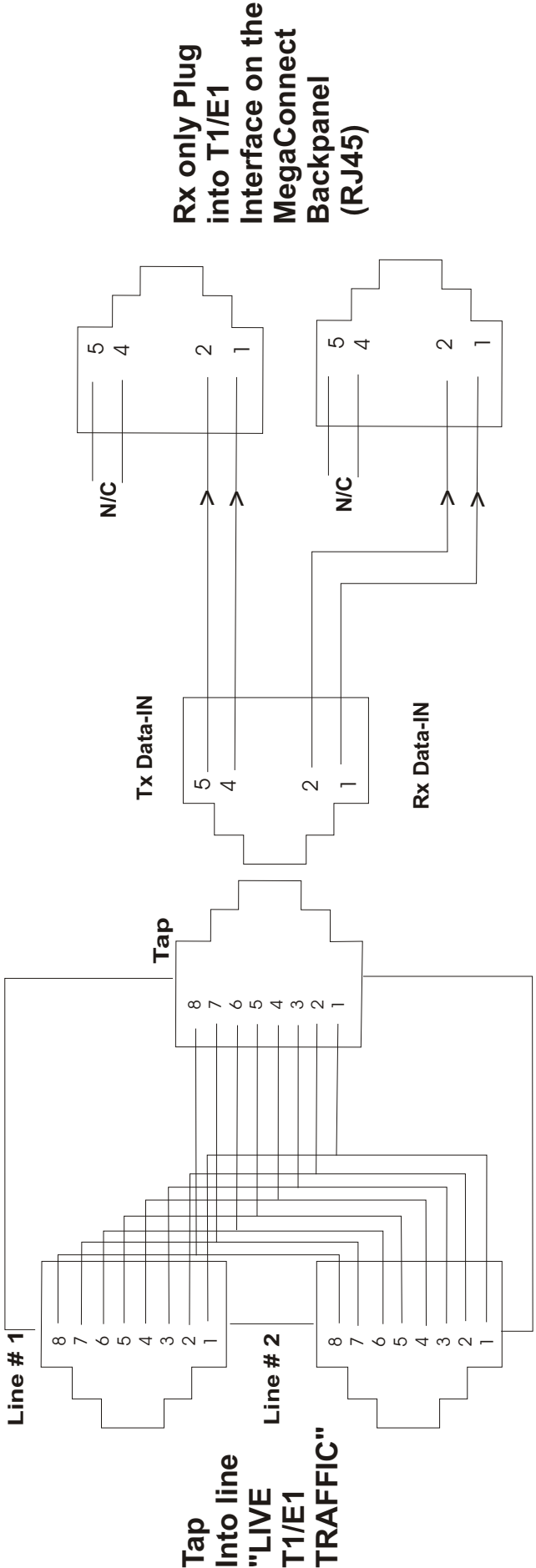


VCL 100 Ohm / 120 Ohm Patch-Panel is used for T1 / E1 Monitoring Application.

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

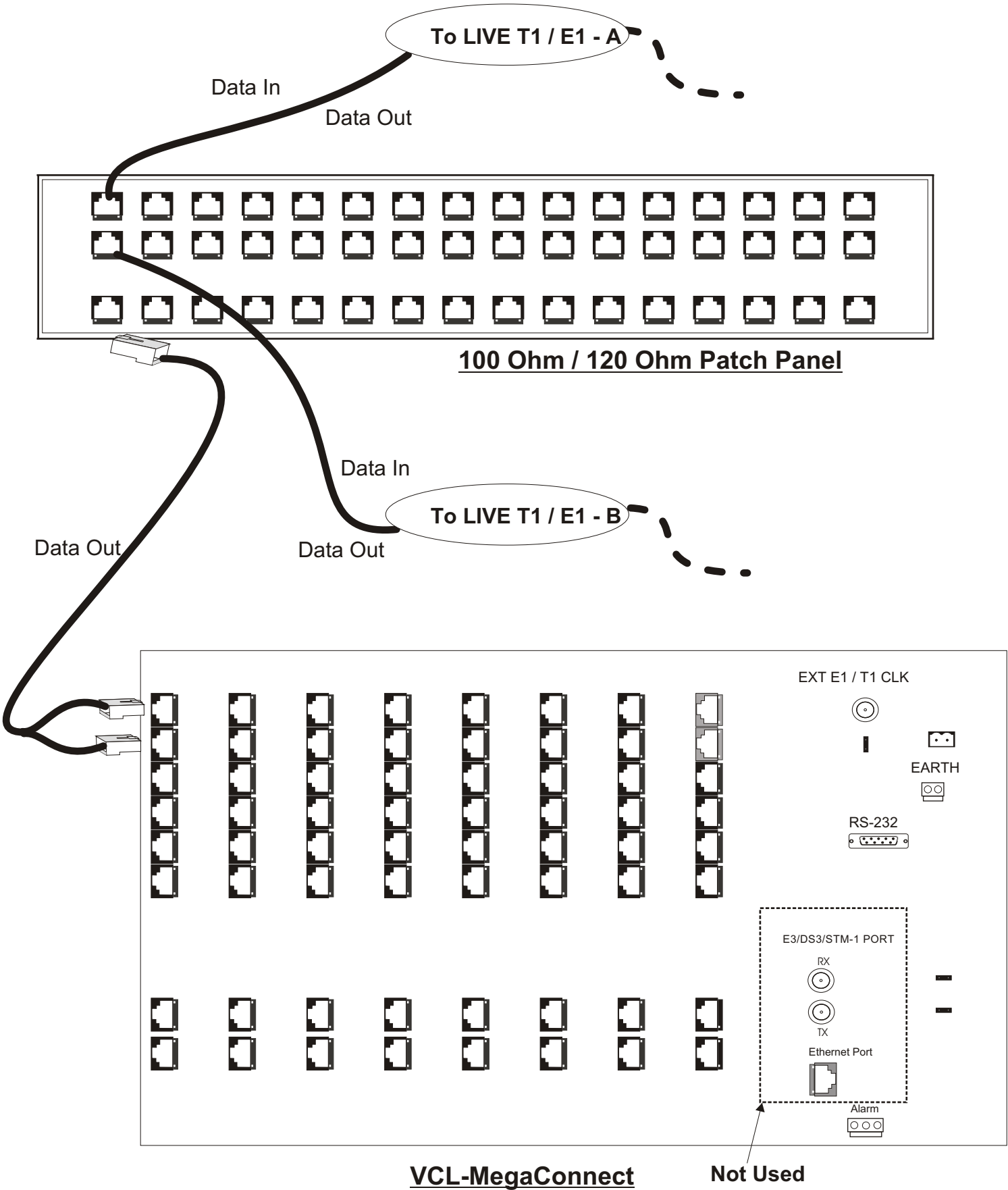


**"Y" Cable
(Supplied)**

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.

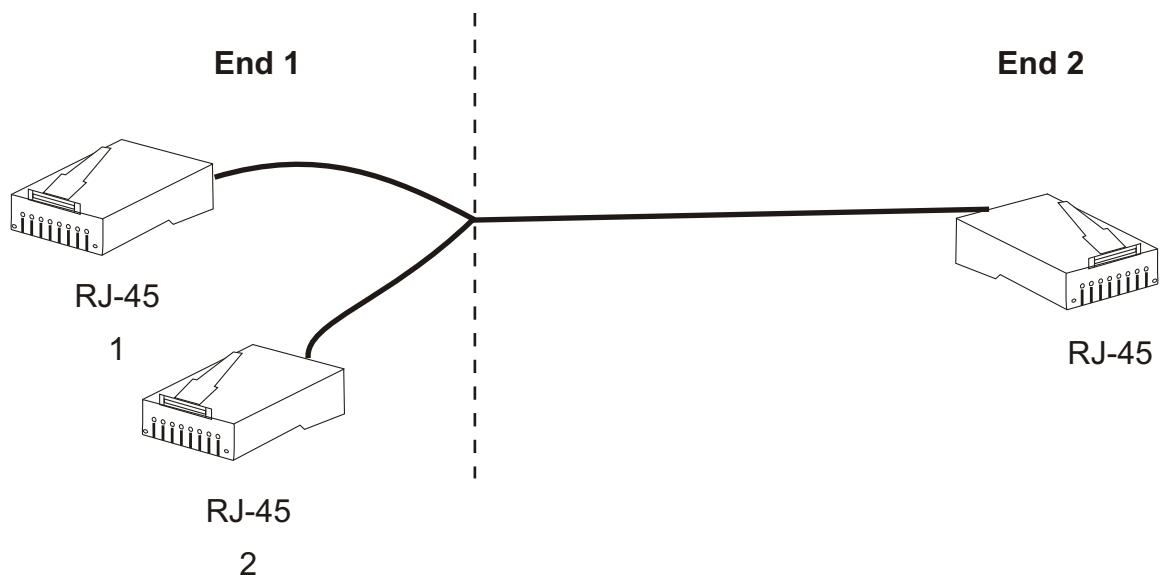
Typical Connections for 100 Ohm / 120 Ohm T1 / E1 Monitoring



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 : _____

Technical Specifications are subject to change.
Windows is the registered Trademark of Microsoft Corporation, USA.
Revision 04, January 30th, 2006

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