



Synway Voice Board Accessories

SHD-240A-JB/L9 Patch Panel

Hardware Manual

Version 1.0

Synway Information Engineering Co., Ltd

www.synway.net

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Revision History

Version	Date	Comments
Version 1.0	2007-7	Initial publication

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Chapter 1 Overview

Most digital trunk boards adopt RJ48C connectors, which provides an easy direct connection for users of 120Ω twisted-pair cables but brings inconvenience to users of L9 jacks. This product is a patch panel which can be installed in a 19-inch standard cabinet to implement the conversion from RJ48C connectors to L9 jacks.

1.1 Features

- A single patch panel supports the conversion of 8 E1 interfaces.
- Supports common RJ48C connectors (for digital trunk boards with 120 or less than 120 channels) and special RJ48C connectors (for 240D boards).
- Use of a 19" 1U standard panel.
- A simplified design with the open structure of '1 panel + 1 PCB board'.

Chapter 2 Installation

2.1 Connection Model

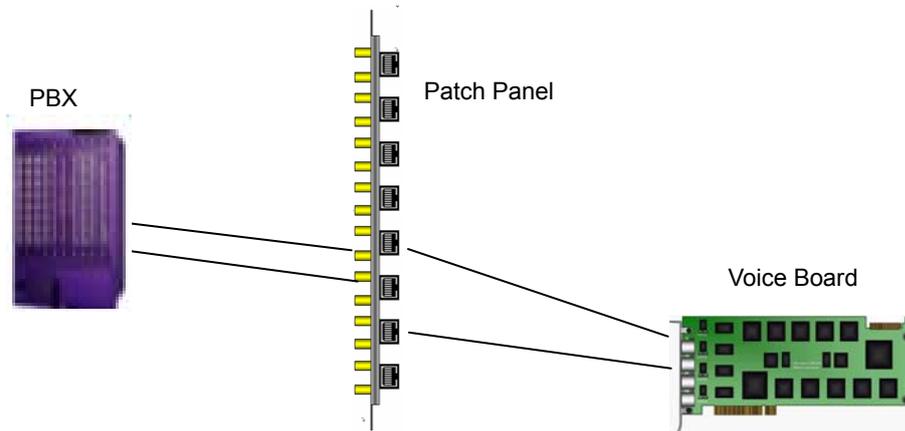


Figure 2-1 Connection Model

2.2 Hardware Structure

- SHD-240A-JB/L9

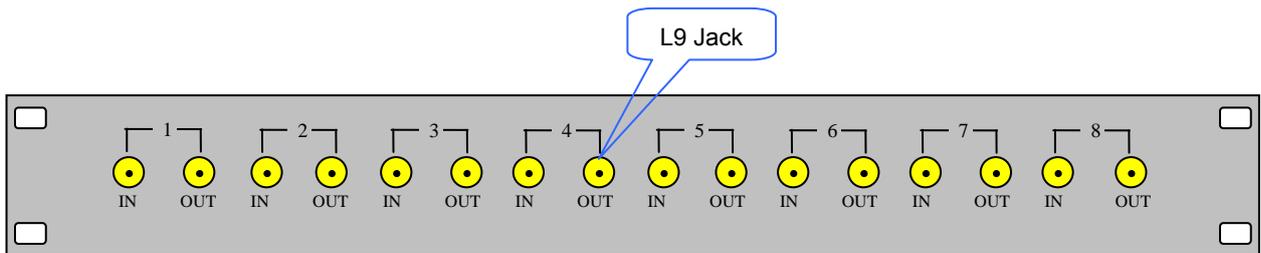


Figure 2-2 Front View

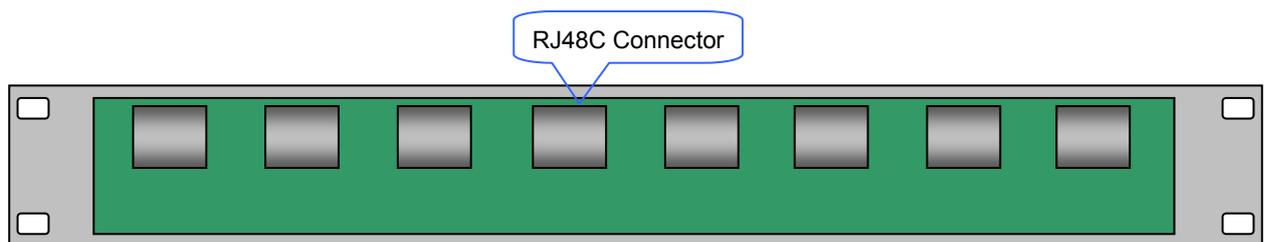


Figure 2-3 Rear View

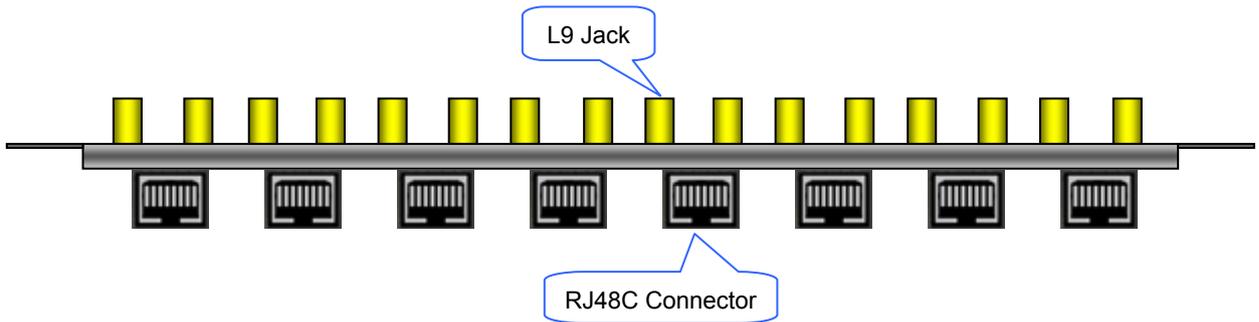


Figure 2-4 Horizontal View

No.	RJ48C Connector	Corresponding L9 Jack
1	Special RJ48C Connector	corresponds to the 1 st pair of jacks in a common connection; corresponds to the 1 st and 2 nd pairs in a special connection.
2	Common RJ48C Connector	corresponds to the 2 nd pair of jacks
3	Special RJ48C Connector	corresponds to the 3 rd pair of jacks in a common connection; corresponds to the 3 rd and 4 th pairs in a special connection.
4	Common RJ48C Connector	corresponds to the 4 th pair of jacks
5	Special RJ48C Connector	corresponds to the 5 th pair of jacks in a common connection; corresponds to the 5 th and 6 th pairs in a special connection.
6	Common RJ48C Connector	corresponds to the 6 th pair of jacks
7	Special RJ48C Connector	corresponds to the 7 th pair of jacks in a common connection; corresponds to the 7 th and 8 th pairs in a special connection.
8	Common RJ48C Connector	corresponds to the 8 th pair of jacks

Table 2-1 Description of RJ48C Connectors on Patch Panel

Note: Up till now, except the SHD-240D-CT/PCI and SHD-240D-CT/PCI/EC boards which use special RJ48C connectors, all boards from Synway use common RJ48C connectors.

2.3 Installation Procedure

Step 1: Fix the patch panel

Mount the patch panel in the cabinet and fix it with screws.

Step 2: Connect the patch panel with the voice board

Refer to Table 2-1 for the corresponding relationship between RJ48C connectors and L9 jacks. The digital trunk boards with 120 or less than 120 channels from Synway provide common RJ48C connectors for direct connection. As shown in Figure 2-5, all pins can be connected. The 240D voice boards are equipped with special RJ48C connectors. As shown in Figure 2-6, only the

odd-numbered pins (1st, 3rd, 5th, 7th pins) can be connected.

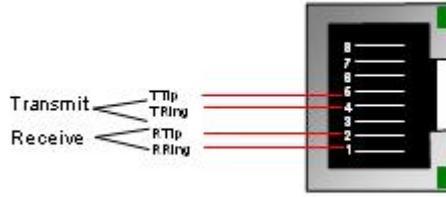


Figure 2-5 Pin Layout for Common RJ48C

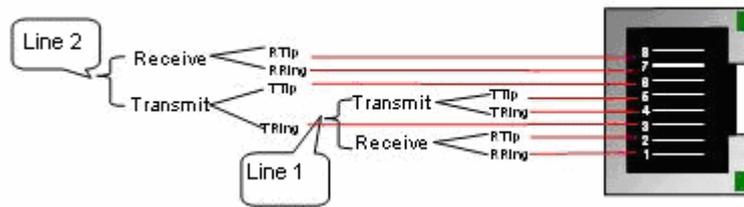


Figure 2-6 Pin Layout for Special RJ48C

2.4 Precautions

- This patch panel can only be used indoors;
- Do not mix up the corresponding lines and pins in connection.

Appendix A Technical Specifications

Dimensions:

482×44×31 (mm³)

Panel:

19" standard 1U height

Weight:

≈415g

Physical Characteristics:

On Resistance: <5Ω

Insulation Resistance: >10MΩ

Environment:

Operating temperature: 0 °C—50 °C

Storage temperature: 0 °C—80 °C

Humidity: ≤60% non-condensing

Interface:

16 L9 jacks and 8 RJ48C connectors

Appendix B Technical/sales Support

Thank you for choosing Synway. Please contact us should you have any inquiry regarding our products. We shall do our best to help you.

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