

Installation Manual for the
Odyssey Products

16RJ-7.1-DSDY/**TRM**

**Dual RJ45-to-DB25 converter board,
With 7.1 surround routing,
And HI/VI **Terminal** breakouts**

Issue 7/19

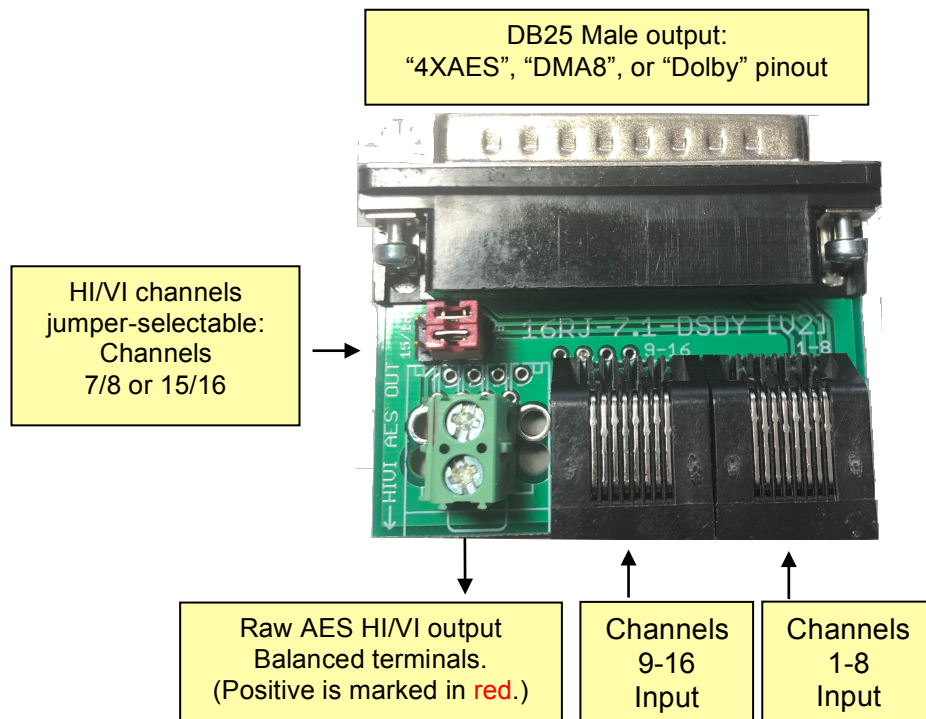


Odyssey Products Model 16RJ-7.1-DSDY/TRM

Dual RJ45-to-DB25 converter with 7.1 surround routing, and HI/VI breakout on screw terminals.

This board is installed at the cinema processor, and performs the following functions:

- It routes the digital AES audio from the industry-standard RJ45 connectors, to the “4XAES / DMA8 / Dolby” DB25 pin configuration used by many cinema processors.
- It physically routes the “7.1” surrounds (AES channels 11/12) to channels 7/8 going into the cinema processor.
- It provides a two-position screw terminal output for the HI/VI channels, jumper-selectable for channels 7/8 or 15/16. **(NOTE: The output is AES digital audio, NOT analog.)**



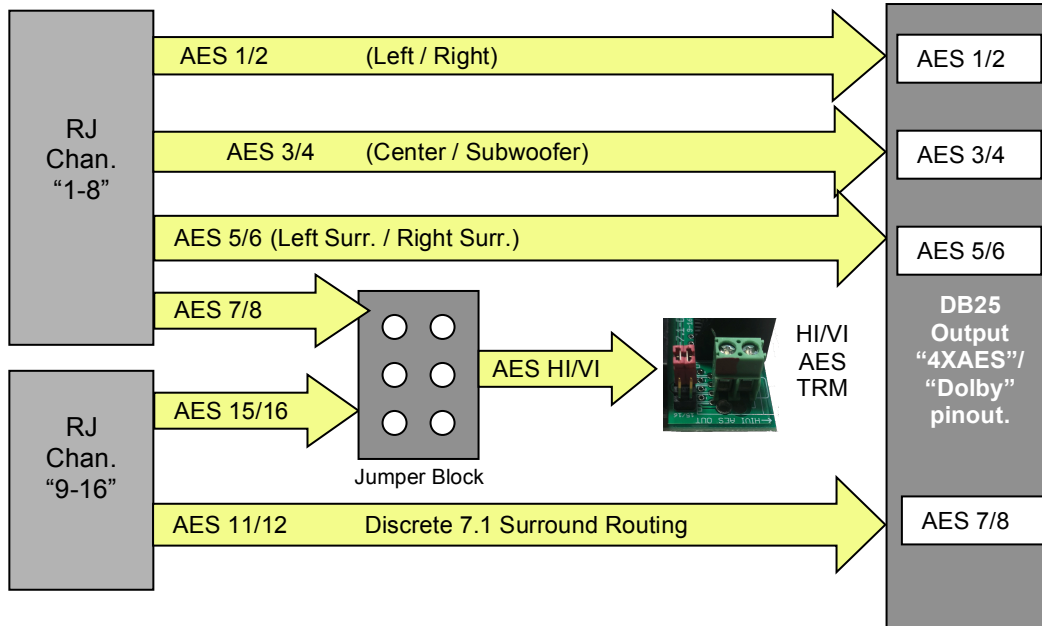
This board is pin compatible with the following processors with the “4XAES”, “DMA8”, or “Dolby” D-sub pin-configuration:

- * Dolby CP750
- * Dolby CP650 (equipped with Odyssey “AES” -series digital input boards)
- * USL JSD-80D
- * USL JSD-60D
- * QSC DCP-100, -200, -300 (Input 1-8 connector)
- * Datasat AP20 (Input 1-8 connector)
- * Enpar Audio DCP800D
- * D/A converters, such as the DMA8, DMA8Plus, ECI-60, DAX-602, and Gefen Pro II scaler.
- * Others.

16RJ-7.1-DSDY-TRM Channel Routing Block Diagram

RJ45
Inputs

DB25 male output to cinema processor
(Such as CP750 and other devices with
the "4XAES/DMA8" pin-configuration)



Input Connectors

Output Connector

RJ45 "1-8" pins	Digital Audio Channels
1	AES channels 1/2 +
2	AES channels 1/2 -
3	AES channels 3/4 +
4	AES channels 5/6 +
5	AES channels 5/6 -
6	AES channels 3/4 -
7	AES channels 7/8 +
8	AES channels 7/8 -
RJ45 "9-16" pins	Digital Audio Channels
1	AES channels 9/10 +
2	AES channels 9/10 -
3	AES channels 11/12 +
4	AES channels 13/14 +
5	AES channels 13/14 -
6	AES channels 11/12 -
7	AES channels 15/16 +
8	AES channels 15/16 -

NOTE: channels 9,10,13,14 are **not** processed by the 16RJ-7.1-DSDY board

DB25 Male "DMA8" pinout	Digital Audio Channels (going into the processor)
14	AES channel 1/2 +
2	AES channel 1/2 -
3	AES channel 3/4 +
16	AES channel 3/4 -
17	AES channel 5/6 +
5	AES channel 5/6 -
6	AES channel 7/8 +
19	AES channel 7/8 -
Dsub frame	CP750 chassis ground

HI/VI AES Output TRM

Wiring a "coax" RCA cable to the terminal block:

Center Pin =HI/VI (+) (Red/Left terminal)
Shield =HI/VI (-) (Right terminal)

