

Dolby IMB and IMS servers output AES3 audio through two RJ45 connectors labeled AES 1-8 and AES -9-16. Although many cinema processors are adopting RJ45 input connectors there are many cinema processors that use a single female DB25 AES input. This document provides guidance on how to configure the dual RJ45 to DB25 male audio adapter (Dolby Part Number 7501670) shown in figure 1.

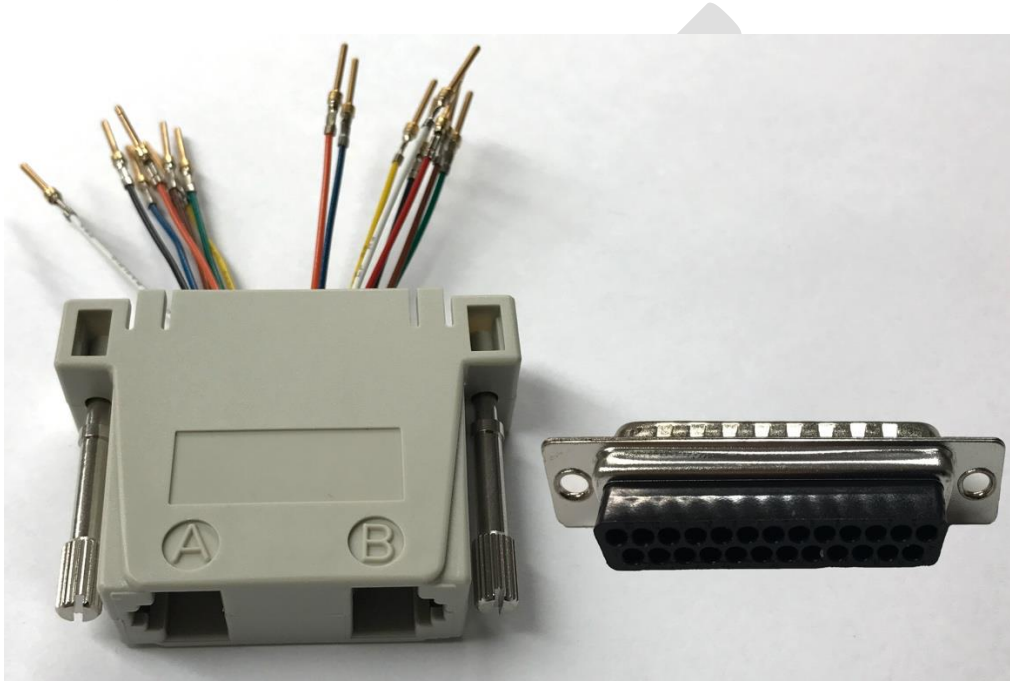


Figure 1

This dual RJ45 to DB25 male adapter has an un-pinned DB25 end that can be configured to use with different audio devices and processors. This adapter is being included with Dolby's Integrated Media Server (IMS) and Integrated Media Block (IMB).

Dolby IMS3000, IMS2000, IMS1000, and Doremi IMB RJ45 Pin-Out Information & Color Legend for RJ45 to DB25 Adapter Pins

These servers output AES3 audio out of two RJ45 connectors labeled AES 1-8 and AES 9-16. Each RJ45 connector has 8 pins which are identified in Figure 2.

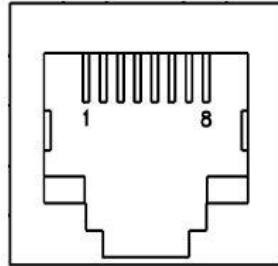


Figure 2

The AES signal with its corresponding pin number are shown below. The pins in the RJ45 to DB25 are color coded to help the installer identify which DB25 pinhole to insert the pin in (see page 3 and 4 for more information).

RJ45 AES 1-8 Connector	Pins AES 1-8 Side A	Color Code	RJ45 AES 9-16 Connector	Pins AES 9-16 Side B	Color Code
Channel 1 & 2 plus	1	Blue	Channel 9 & 10 plus	1	Blue
Channel 1 & 2 minus	2	Orange	Channel 9 & 10 minus	2	Orange
Channel 3 & 4 plus	3	Black	Channel 11 & 12 plus	3	Black
Channel 5 & 6 plus	4	Red	Channel 13 & 14 plus	4	Red
Channel 5 & 6 minus	5	Green	Channel 13 & 14 minus	5	Green
Channel 3 & 4 minus	6	Yellow	Channel 11 & 12 minus	6	Yellow
Channel 7 & 8 plus	7	Brown	Channel 15 & 16 plus	7	Brown
Channel 7 & 8 minus	8	White	Channel 15 & 16 minus	8	White

How to pin the dual RJ45 to DB25 male adapter

To pin the adapter, you will need to insert the correct pin into the male adapter. Use the charts in this document to identify the DB25 pinhole the cable should be connected to.

Note: The DB25 end does indicate the pin numbers in small print beside each pin.

Figure 3 identifies the pin numbers based on if you are viewing the DB25 from the front or back of the connector.

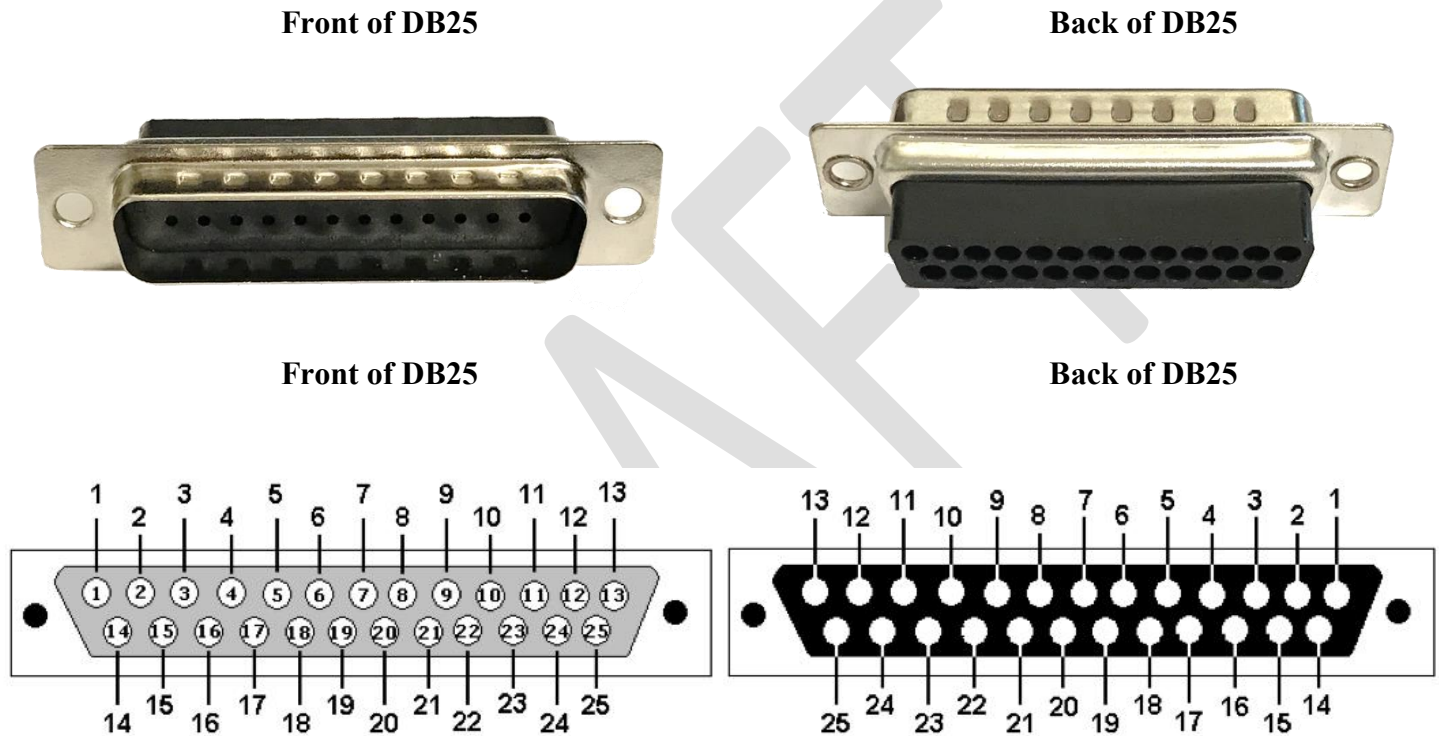


Figure 3

Insert the cable into the pinhole until you feel the pin latch/click. To confirm the pin is secure pull the cable slightly to ensure it doesn't come out of the connector.

Digital Audio Wiring Pin-Out Information

The mapping of the digital audio signals for the various audio receiving audio processors is presented below. The first column is the output from the IMS or IMB, pins 1-8(A) from the AES 1-8 port and Pins 1-8(B) from the AES 9-16 port. It is always recommended to consult the audio processor's installation manual as well.

Signal	Dolby IMB and IMS AES Out	Doremi AUD-D2A AES Input	Dolby CP650 w/ Cat790 (5.1 config) (7.1 config)	Dolby CP750 (5.1 config) (7.1 config)	Dolby CP850	Dolby DMA8 DMA8plus	DTS XD10P	DataSat AP20	USL JSD-60 JSD-80	Odyssey 650-OPTIO-AES	QSC Basis 922dz	QSC DCP100 DCP200 DCP300
Ch 1 & 2 plus	1A	24	1	14	14	14	14	14	14	14	7	14
Ch 1 & 2 minus	2A	12		2	2	2	2	2	2	2	15	2
Ch 1 & 2 ground		25	7			1	1		1	Shell		1
Ch 3 & 4 plus	3A	10	2	3	3	3	3	3	3	3	24	3
Ch 3 & 4 minus	6A	23		16	16	16	16	16	16	16	23	16
Ch 3 & 4 ground		11	7			4	4		15	Shell		15
Ch 5 & 6 plus	4A	21	13	17	17	17	17	17	17	17	8	17
Ch 5 & 6 minus	5A	9		5	5	5	5	5	5	5	16	5
Ch 5 & 6 ground		22	7			18	18		4	Shell		4
Ch 7 & 8 plus	7A	7	21 (none)	6 (none)	6	6	6	6	6	6	22	6
Ch 7 & 8 minus	8A	20		19 (none)	19	19	19	19	19	19	21	19
Ch 7 & 8 ground		8	7 (none)			7	7		18	Shell		18
Ch 9 & 10 plus	1B				8							
Ch 9 & 10 minus	2B				21							
Ch 9 & 10 ground												
Ch 11 & 12 plus	3B		none (21)	none (6)	22							
Ch 11 & 12 minus	6B			none (19)	10							
Ch 11 & 12 ground			none (7)									
Ch 13 & 14 plus	4B				11							
Ch 13 & 14 minus	5B				24							
Ch 13 & 14 ground												
Ch 15 & 16 plus	7B				25							
Ch 15 & 16 minus	8B				13							
Ch 15 & 16 ground												

Examples:

CP750 Cinema Audio Processor 5.1 Mode

RJ-45 Side A	DB25 Side	RJ-45 Side B
1-Blue	14	No connection
2-Orange	2	No connection
3-Black	3	No connection
4-Red	17	No connection
5-Green	5	No connection
6-Yellow	16	No connection
7-Brown	6	No connection
8-White	19	No connection

CP750 Cinema Audio Processor 7.1 Mode

RJ-45 Side A	DB25 Side	RJ-45 Side B
1-Blue	14	No connection
2-Orange	2	No connection
3-Black	3	6
4-Red	17	No connection
5-Green	5	No connection
6-Yellow	16	19
7-Brown	No connection	No connection
8-White	No connection	No connection

CP850 Cinema Audio Processor

DB25 Side	RJ-45 Side A		RJ-45 Side B	DB25 Side
14	1-Blue		1-Blue	8
2	2-Orange		2-Orange	21
3	3-Black		3-Black	22
17	4-Red		4-Red	11
5	5-Green		5-Green	24
16	6-Yellow		6-Yellow	10
6	7-Brown		7-Brown	25
19	8-White		8-White	13