

Quick reference guide: Comparing the DB25 ANALOG Audio Pin-configurations of various D-Cinema servers, processors, and D-to-A converters. (Both 6-channel and 8-channel analog).

NOTE: The information in this document was compiled over time from manufacturer's equipment manuals and service calls, and is used internally by Odyssey for construction of cables and other devices. It is a guide only.

It is your responsibility to verify the accuracy of any information you may derive from this document. Of course, please let us know if you notice any errors or omissions.

This document covers the various Dsub-25 ("DB-25") analog audio pinouts used in our industry. Some of these may have more official titles, but below are the names we use to identify the standards:

- The "**Dolby/DA20**" pin-configuration. Usually a 6-channel **unbalanced** pattern.
- The "**Dolby/DMA8/ECI-60**" pin-configuration. An 8-channel **balanced** pattern.
- The "**Doremi**" pin-configuration. An 8-channel **unbalanced** pattern.
- The "**THX/Sony**" pin-configuration. An 8-channel **balanced** pattern.
- The "**TASCAM/ATMOS**" pin-configuration. An 8-channel **balanced** pattern.

Devices OUTPUTS with DB25 "DA20" unbalance analog pinout:

Qube XPE and XPS servers. The manual says "DB25 Male", presumably on the chassis.
DTS Media players DTS-XD10 and XD20

Device OUTPUTS with DB25 "DMA8" balanced analog pinout:

DMA8/DMA8plus NOTE: male connector on chassis.
ECI-60 NOTE: male connector on chassis.
DAX-602 NOTE: male connector on chassis.
Gefen Pro II Scaler NOTE: **female** connector on chassis.

Processor INPUTS with DB25 "DA20" pinout that allow **direct DB25 cable connection** from the above outputs:

CP500 (6-channel only, unbalanced)
CP650 (6-channel only, unbalanced)
JSD-80 (USL) (up to 8-channels in, unbalanced)
DTS-XD10P (up to 8-channels in, unbalanced)
Enpar DCP800D (up to 8-channels in, unbalanced)

Processors INPUTS with DB25 "THX" input analog pinouts:

QSC DCP-100, DCP-200, DCP-300 Input only (Main Analog Input). No DB25 output.
QSC DPM series Input only (Analog Inputs). No DB25 output.

Processors with "THX" analog pinouts for both INPUT and OUTPUT:

CP750 Female input, male output connectors on chassis.
JSD-60 (USL) Female input, male output connectors on chassis. **NOTE: 6-channel input only.**
JSD-100 Female input, male output connectors on chassis.
SKA-3D (Christie) Female input, male output connectors on chassis.
DATASAT AP20/24 NOTE: up to 3 input DB25's and 3 output DB25's
Sony DCP-1000 Female input, male output connectors on chassis.
Sony DFP-D3000 Female input, male output connectors on chassis.

Processors with "TASCAM" analog pinouts for inputs and outputs:

CP-850 and DAC3202 TASCAM output connectors (Mappable)
Trinnov Ovation / Ovation2 One analog input and 3 analog output connectors

Odyssey offers boards that provide a compatible DB25-female input connector for older CP's with screw terminals, or with incompatible older Dsub pinouts, and with the newer "THX" style 8-channel input pinouts.

Odyssey boards that provide "DA20" or "ECI-60"-style DB25 input connectors for older processors:

INPUT25-55	for CP55 (modified and unmodified for split stereo surrounds)
INPUT25-65	for CP65
4FJS-XF	for USL JS-series processors (This board has isolation transformers.)
INPUT25-6AD	for DTS-6AD (correctly matches up all of the minuses)
INPUT25-3K	for Sony DFP-D3000 and DCP-1000 (For 6-channels. Can be ordered for 8-channels.)
INPUT25-2C	for Smart Mod IIC , and Mod's 5 through 8 .
4F2C-XF-DA	transformer isolation for Smart Mod IIC , and Mod's 5 through 8 .
4F2B-XF	transformer isolation for Smart Mod IIB .

Odyssey boards that provide "DMA8/ECI-60/DAX-602" -style DB25 input connectors for NEWER processors with the "THX"-style input pin-configurations:

INPUT25-JSD100	for USL JSD-100	(for up to 8-channels)
ODY-ECITHX-8	for QSC DCP-100/200/300	(for up to 8-channels)
ODY-ECITHX-8	for CP750, and Christie SKA-3D	(for up to 8-channels)

TASCAM:

Odyssey also provides boards that convert between THX and TASCAM pinouts.

Regarding Doremi analog audio:

"Classic" **Doremi** servers (those that were equipped with the analog output board) and **Doremi AUD-D2A** converters have a proprietary analog d-sub pin-configuration. Custom cabling is usually required to connect these to cinema processors.

"DA20" –style Pin-configuration (6-channel, un-balanced)		"DMA8" –style Pin-configuration (8-channel, balanced)	
1	Analog Ground	1	Left (-)
2	Right Surround (+)	2	Right Surround (+)
3	Analog Ground	3	Right Surround (-)
4	Analog Ground	4	Left Surround (-)
5	Analog Ground	5	Right CENTER (-)
6	Analog Ground	6	Right (-)
7	Analog Ground	7	Left CENTER (-)
8	Analog Ground	8	Center (-)
9	Analog Ground	9	Analog Ground (chassis gnd DMA8)
10	Analog Ground	10	Analog Ground (chassis gnd DMA8)
11	Analog Ground	11	Analog Ground (chassis gnd DMA8)
12	Analog Ground	12	Subwoofer (-)
13	Analog Ground	13	Analog Ground (chassis gnd DMA8)
14	Left (+)	14	Left (+)
15	Left Surround (+)	15	Left Surround (+)
16	Analog Ground/ (RC+ on JSD-80)	16	Right CENTER (+)
17	Right (+)	17	Right (+)
18	Analog Ground/ (LC+ on JSD-80)	18	Left CENTER (+)
19	Analog Ground	19	CHASSIS Ground
20	Center (+)	20	Center (+)
21	Analog Ground/ (sometimes n/c)	21	(sometimes n/c)
22	Analog Ground	22	Analog Ground (n/c on DMA8 out)
23	Analog Ground	23	Analog Ground (n/c on DMA8 out)
24	Subwoofer (+)	24	Subwoofer (+)
25	Analog Ground/ (sometimes n/c)	25	("pass-through" on D/A converters)
<p align="center">Devices with this input pin-configuration:</p> <p>CP500 CP650 JSD-80 DTS XD10P Odyssey INPUT25-55 board. Odyssey INPUT25-65 board. Odyssey 4FXF-series transformer bds.</p>		<p align="center">Devices with this input pin-configuration:</p> <p>Odyssey INPUT25-6AD (NO LC or RC) Odyssey INPUT25-3K board Odyssey INPUT25-JSD100 board Odyssey ODY-ECITHX-8 board</p>	

“Doremi” –style Pin-configuration (8-channel, un-balanced output)		“THX” –style Pin-configuration (8-channel, balanced)	
1	(Ch.8) Right Center (+)	1	Ground
2	(Ch.8) Right Center Ground	2	Left (+)
3	n/c	3	Left Center (-)
4	(Ch.6) Right Surround (+)	4	Ground
5	(Ch.6) Right Surround Ground	5	Center (+)
6	n/c	6	Right Center (-)
7	(Ch.4) Subwoofer (+)	7	Ground
8	(Ch.4) Subwoofer Ground	8	Right (+)
9	n/c	9	Ground
10	(Ch.2) Right (+)	10	Left Surround (-)
11	(Ch.2) Right Ground	11	Right Surround (-)
12	n/c	12	Subwoofer (-)
13	n/c	13	Ground
14	n/c	14	Left (-)
15	(Ch.7) Left Center (+)	15	Ground
16	(Ch.7) Left Center Ground	16	Left Center (+)
17	n/c	17	Center (-)
18	(Ch.5) Left Surround (+)	18	Ground
19	(Ch.5) Left Surround Ground	19	Right Center (+)
20	n/c	20	Right (-)
21	(Ch.3) Center (+)	21	n/c
22	(Ch.3) Center Ground	22	Ground
23	n/c	23	Left Surround (+)
24	(Ch.1) Left (+)	24	Right Surround (+)
25	(Ch.1) Left Ground	25	Subwoofer (+)
<p align="center"><u>Devices with this pin-configuration:</u></p> <p>Doremi Servers (w/DB25 output) (with the internal Analog output board)</p> <p>Doremi AUD-D2A digital-to-analog converter output.</p> <p>NOTE: According the Doremi audio wiring guide: Never, Never, EVER attach a shield to the Doremi end of an analog cable.</p>		<p align="center"><u>Devices with this input pin-configuration:</u></p> <p>CP750 USL JSD-100 USL JSD-60 (in=6-channel, out=8-channel) Christie SKA-3D Sony DCP-1000 Sony DFP-D3000 (NOTE: The above processors have the same input AND output analog pinouts.)</p> <p>QSC DCP-100/200/300 (Input only) QSC DPM series processors (input only)</p> <p>Also: - QSC DCM-series monitors - USL monitors - Odyssey monitors and crossovers - THX monitors - Others</p>	

	“TASCAM” –style Pin-configuration (8-channel, balanced output)		TASCAM” –style Pin-configuration (8-channel, balanced output) Channels 9-16
1	Ch.8 (+)	1	Ch.16 (+)
2	Ch.8 Ground	2	Ch.16 Ground
3	Ch.7 (-)	3	Ch.15 (-)
4	Ch.6 (+)	4	Ch.14 (+)
5	Ch.6 Ground	5	Ch.14 Ground
6	Ch.5 (-)	6	Ch.13 (-)
7	Ch.4 (+)	7	Ch.12 (+)
8	Ch.4 Ground	8	Ch.12 Ground
9	Ch.3 (-)	9	Ch.11 (-)
10	Ch.2 (+)	10	Ch.10 (+)
11	Ch.2 Ground	11	Ch.10 Ground
12	Ch.1 (-)	12	Ch.9 (-)
13	n/c	13	n/c
14	Ch.8 (-)	14	Ch.16 (-)
15	Ch.7 (+)	15	Ch.15 (+)
16	Ch.7 Ground	16	Ch.15 Ground
17	Ch.6 (-)	17	Ch.14 (-)
18	Ch.5 (+)	18	Ch.13 (+)
19	Ch.5 Ground	19	Ch.13 Ground
20	Ch.4 (-)	20	Ch.12 (-)
21	Ch.3 (+)	21	Ch.11 (+)
22	Ch.3 Ground	22	Ch.11 Ground
23	Ch.2 (-)	23	Ch.10 (-)
24	Ch.1 (+)	24	Ch.9 (+)
25	Ch.1 Ground	25	Ch.9 Ground
<p><u>Devices with this pin-configuration:</u></p> <ul style="list-style-type: none"> * Dolby CP850 output * Dolby DAC3201, 3202 * Trinnov Ovation / Ovation2 * Other devices with a published “TASCAM” analog audio pinout. 		<p><u>Devices with this pin-configuration:</u></p> <ul style="list-style-type: none"> * Dolby CP850 “Channels 9-16” output * A third connector would carry channels 17-24 (Trinnov and DAC’s) * A fourth connector would carry channels 25-32. (DAC 3201 and 3202) 	