

TAS3108EVM2 User's Guide

Evaluation Module for the TAS3108 Digital Audio Signal Processor

User's Guide

NOVEMBER 2006

Digital Audio and Video Products

SLEU065A

TAS3108EVM2 User's Guide

Evaluation Module for the TAS3108 Digital Audio Signal Processor

User's Guide

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Preface SLEU065A-SEPTEMBER 2005-Revised NOVEMBER 2006

Read This First

About This Manual

This manual describes the operation of the TAS3108EVM2 evaluation module from Texas Instruments.

How to Use this Manual

This document contains the following chapters:

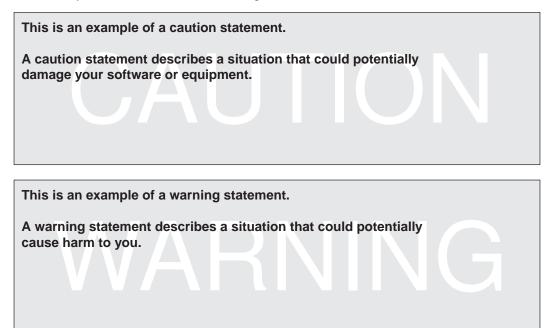
Chapter 1 - Overview

Chapter 2 - Quick Setup Guide

Chapter 3 - System Interfaces

Information About Cautions and Warnings

This manual may contain cautions and warnings.



The information in a caution or a warning is provided for your protection. Please read each caution and warning carefully.



Related Documentation from Texas Instruments

The following table contains a list of data manuals that have detailed descriptions of the integrated circuits used in the design of the TAS3108EVM2. The data manuals can be obtained at the URL http://www.ti.com.

| PART NUMBER | LITERATURE NUMBER | |
|-------------|-------------------|--|
| TAS3108 | SLES152 | |
| TLV1117-33 | SLVS561 | |
| TPS3825-33 | SLVS165 | |

Table 1. Related Documentation from Texas Instruments

Additional Documentation

- 1. TAS3108EVM2 Application Report
- 2. Graphical Development tool (GDE) for TAS3108 (GDE version 1.11 or later)
- 3. General Application Notes

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Chapter 1 SLEU065A-SEPTEMBER 2005-Revised NOVEMBER 2006

The TAS3108EVM2 PurePath Digital[™] customer evaluation amplifier module demonstrates the digital audio processor TAS3108/TAS3108IA from Texas Instruments (TI).

TAS3108DCP/TAS3108IADCP is a fully programmable high-performance audio processor. It uses an efficient, custom, multi-instruction programming environment optimized for digital audio processing algorithms. The TAS3108/TAS3108IA architecture provides high-quality audio processing by using a 48-bit data path, 28-bit filter coefficients, and a single-cycle 28×48 -bit multiplier with a 76-bit accumulator. An embedded 8051 microprocessor provides algorithm and data control for the TAS3108/TAS3108IA. The TAS3108 is the commercial version, intended for home audio and other commercial applications. The TAS3108IA is the automotive version that is qualified for use in automotive applications. This EVM uses the TAS3108 version, and the active/passive parts used are not qualified for automotive use.

This EVM is delivered together with two boards: an input board with SPDIF, ACD, and USB for PC control, and an output board with DACs and a SPDIF transmitter. This system is a complete eight-channel digital audio processor system that includes digital input/output (S/PDIF), analog inputs/outputs, interface to PC, and DAP features like digital volume control, input and output mixers, auto mute, equalization, tone controls, loudness, dynamic range compression, and surround effects.

The TAS3108 applications could be automotive sound systems, digital televisions, home theater systems, mini-component audio systems, and pro-audio.

Replacing the DAC-DIT output board with one of the TI PurePath digital-amplifier EVMs makes it possible to test the TAS3108 with a speaker connected directly. Examples of EVMs that can be connected include, but are not limited to, TAS5508-5142K7EVM, TAS5518-5152K8EVM, TAS5518-5182C8EVM2, and TAS5086-5186V6EVM. This system is designed for home theater applications such as A/V receivers, DVD mini-component systems, home theater in a box (HTIB), DVD receivers, or plasma display panels (PDP).

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1.1 TAS3108EVM2 System Features

- Socketed EEPROM for download of program and coefficients
- Eight-channel analog-to-digital converter, four PCM1802 devices, 102-dB DYR A-weighted
- Eight-channel digital-to-analog converter, two PCM4104 devices, 116-dB DYR A-weighted
- Two-channel SPDIF receiver, coaxial and optical input
- Two-channel SPDIF transmitter, coaxial and optical output
- I2S input and output connectors
- USB-to-PC connection for software control
- Double-sided plated-through PCB layout

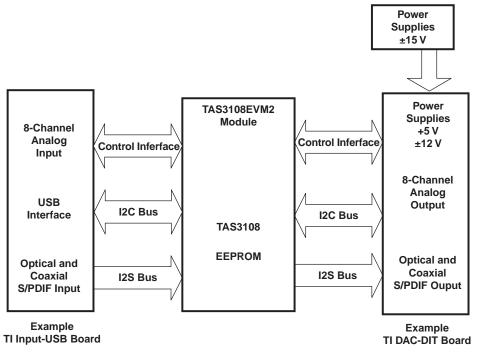


Figure 1-1. TAS3108EVM2 System



1.2 PCB Key Map

Physical structure for the TAS3108EVM2 is illustrated in Figure 1-2.

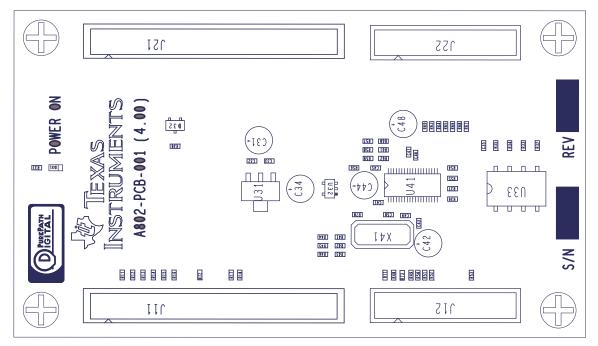


Figure 1-2. Physical Structure for the TAS3108EVM2 (Rough Outline)

U41 is the TAS3108 device. U33 is the EEPROM for program and coefficient storage. Digital audio data (I2S) is input on J12 and output on J22. J11 is used for I2C control, reset signal, and power-supply voltage. Signals in J11 are duplicated in J21 for further control of a DAC output board or speaker amplifier.

D31, a green LED, indicates that the power-supply voltage is within specifications and that the device is brought out of reset.



1.3 Input Board

The input board contains an eight-channel ADC, SPDIF receiver, and USB connection. Buttons for MUTE, RESET, and selection between 48-kHz and 96-kHz sample rate.

Physical structure for the input-USB board is illustrated in Figure 1-3.

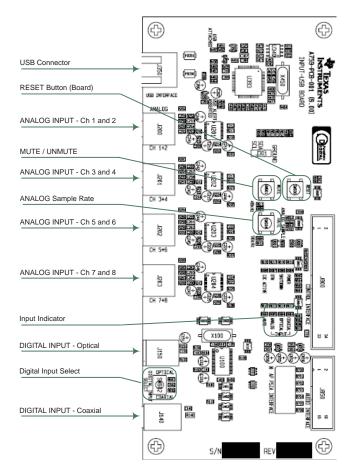


Figure 1-3. Input Board Outline



1.4 Output Board

- Eight-channel digital-to-analog converter, two PCM4104 devices, automatic sample-rate detection, and supports 44.1 kHz, 48 kHz, and 96 kHz in this application. Relation between master clock and sample rate clock must be 256. 4-Vrms for 0-dB and 116-dB DYR A-weighted.
- Two-channel digital audio output, SPDIF format, DIT4192, optical and electrical output
- ±12-V and 5-V power-supply regulators

The physical structure of the output DAC8-DIT2 board is illustrated in Figure 1-4.

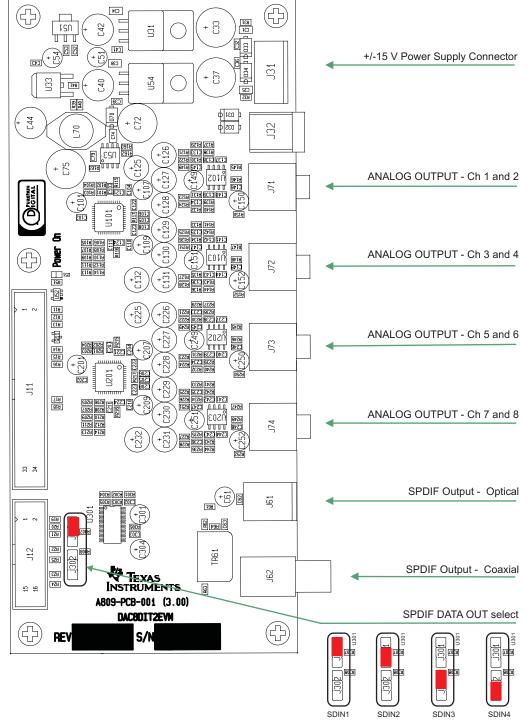


Figure 1-4. Physical Structure for Output DAC8-DIT2 Board Outline



A picture of the complete system is shown in Figure 1-5. The input board is to the left, the TAS3108EVM2 is in the middle, and the output board is to the right.

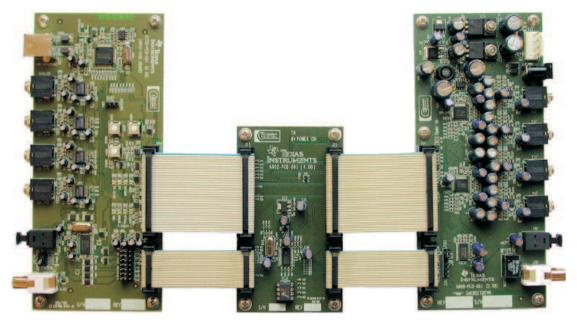


Figure 1-5. Complete System



Chapter 2 SLEU065A-SEPTEMBER 2005-Revised NOVEMBER 2006

Quick Setup Guide

This chapter describes the TAS3108EVM2 board, with regard to power supplies and system interfaces. The chapter provides information regarding handling and unpacking, absolute operating conditions, and a description of the factory default switch and jumper configuration.

This chapter provides a step-by-step guide to configuring the TAS3108EVM2 for device evaluation.

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2.1 Electrostatic Discharge Warning

Many of the components on the TAS3108EVM2 are susceptible to damage by electrostatic discharge (ESD). Customers are advised to observe proper ESD handling precautions when unpacking and handling the EVM, including the use of a grounded wrist strap at an approved ESD workstation.



2.2 Unpacking the EVM

Upon opening the TAS3108EVM2 package, please ensure that the following items are included:

- One TAS3108EVM2 board using one TAS3108DCP
- One TI input-USB board for interfacing TAS3108EVM2 with SPDIF receiver and eight-channel analog-to-digital converter and USB for PC control
- One TI DAC8-DIT2 board for interfacing TAS3108EVM2 with SPDIF transmitter and digital-to-analog converter outputs and power-supply regulators
- Two signal interface IDC cables for connection to an I2S back-end like the attached TI DAC8-DIT2 board, 14 pin
- Two control interface IDC cables for connection to an I2C back-end like the attached TI DAC8-DIT2 board, 34 pin
- One cable for connecting input-USB board to a USB port on a PC for TAS3108 control by software
- One cable for connecting DAC8-DIT2 board to the power supplies
- One PurePath CD-ROM containing data sheets, application notes, user's guides, gerber files, and PC software tools

If any of these items are missing, please contact the Texas Instruments Product Information Center nearest you to obtain a replacement.

Connect the input-USB board to TAS3108EVM2 using the two included delivered IDC cables. Connect TAS3108EVM2 board to DAC8-DIT2 board using the two included IDC cables.

2.3 Power Supply Setup

The TAS3108EVM2 is powered via the DAC8-DIT2 board or another output board, like a TAS5086-5186EVM. The DAC8-DIT2 board generates a +5-V supply that is fed to the TAS3108EVM2. The +5-V supply is further regulated to +3.3 V with the aid of a low-dropout linear regulator, U31.

Set the power supplies to ± 15 V, switch off the power supply, connect all cables to the EVM, and switch on the power supply. Current consumption should be less than is shown in Table 2-1. If it is higher, switch off the power supply and double check the cabling.

| | · · · · · · · · · · · · · · · · · | | |
|-------------|-----------------------------------|---------------------|-----------|
| DESCRIPTION | VOLTAGE LIMITATIONS | CURRENT REQUIREMENT | CABLE |
| +15 V | +14.5 V to +15.5 V | 0.3 A | J31 pin 2 |
| -15 V | -15.5 V to -14.4V | 0.1 A | J31 pin 1 |



2.4 Digital Audio Inputs/Outputs

The digital audio inputs can be connected to the board in two ways, either in the SPDIF format on the coaxial connector or optical TosLink input or in I2S format on connector J12. The pinouts are shown in Section 3.5 and Section 3.6.

The digital audio outputs can be both SPDIF and I2S. SPDIF format is output on the coaxial connector (J62) or optical TosLink® connector (J61), or I2S format is output on connector J22. Jumpers J301 and J302 select the SDATA line to feed to the SPDIF transmitter.

2.5 Master/Slave Mode

The TAS3108EVM2 is delivered in Slave mode.

The SPDIF receiver, on the input board, is the MCLK clock master in this system.

The digital audio outputs can be both SPDIF and I2S. SPDIF format is output on coaxial connector, J62, or optical TosLink, J61, or in I2S format on connector J22. Jumpers J301 and J302 selects the SDATA line to feed to the SPDIF transmitter.

After each reset, either auto-generated during power-up sequence or manual pressing RESET button, the input-USB board is always in the following configuration:

- Mute enabled
- Analog input set to 48-kHz sample rate



To start up a PurePath EVM, use following procedure:

- 1. Turn on all power supplies before connecting USB interface.
- 2. Connect USB interface and press RESET button.
- 3. Start GUI software and press RESET in GUI window. Make sure that the "USB attached" LED is on and that the status indicator changes to "OK".
- 4. Load EVM configuration file. Ensure that the correct file is selected, according to the EVM in use.
- 5. Press MUTE to unmute the EVM.
- 6. The EVM is now ready to use.

2.6 TAS3108 Software Installation

The TAS3108 GDE and IDE software provide easy programming of the TAS3108 and enable programming of the EEPROM on the EVM board.

1. Insert the PurePath CD-ROM

- If it does not autorun, run the ReadMe file.
- Select "SOFTWARE" in the menu to the left.
- Select the TAS3108 tools, and follow the instructions given to install.
- 2. After installation, turn on power supplies and connect USB cable to input-USB board.
- 3. Start GDE program from the Windows Start menu. Startup of GDE requires a few seconds.

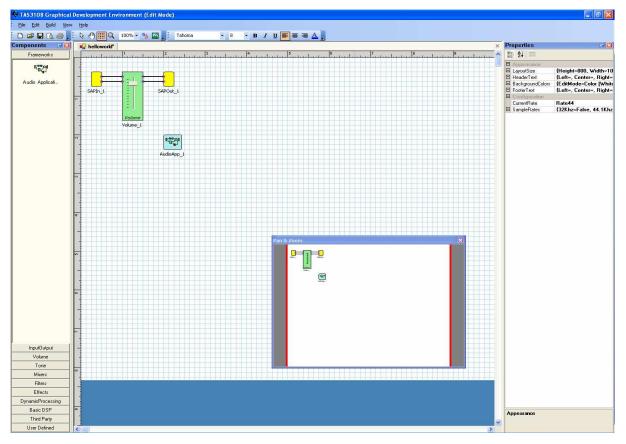


Figure 2-1. TAS3108 GDE Window

To test the connection from PC to EVM, load the TAS3108EVM2 test file (helloworld.pfw), located in C:\Program Files\Texas Instruments Inc\TAS3108 Development Tools\Examples\HelloWorld.pfw.

For more advanced use of the GDE, see the GDE online help, GDE release notes, and TAS3108 MCU programmer's reference guide.



Chapter 3 SLEU065A-SEPTEMBER 2005-Revised NOVEMBER 2006

System Interfaces

This chapter describes the TAS3108EVM2 board regard to power supplies and system interfaces.

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Downloaded from Arrow.com.

3.1 Control Interface (J11), Input

This interface connects the TAS3108EVM2 board to a TI input-USB board. This is a general-purpose interface, so not all signals are used by the TAS3108. Unused signals are shaded in Table 3-1.

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION | |
|---------|---------------------------|---|--|
| 1 | GND | Ground | |
| 2 | RESERVED | | |
| 3 | GND | Ground | |
| 4 | RESET | System reset (bidirectional). Activate MUTE before RESET for quiet reset. | |
| 5 | RESERVED | | |
| 6 | MUTE | Ramp volume from any setting to noiseless soft mute. Mute can also be activated by I2C. | |
| 7 | PDN | Power down. TAS3108 goes ino power down state when activated. | |
| 8 | RESERVED | | |
| 9 | RESERVED | | |
| 10 | SDA | I2C data clock | |
| 11 | GND | Ground | |
| 12 | SCL | I2C bit clock | |
| 13 | GPIO1 | | |
| 14 | GPIO2 | | |
| 15 | GPIO3 | | |
| 16 | GPIO4 | General-purpose input/output 4, used to reset the TAS3108 after programming. | |
| 17 | GND | Ground | |
| 18 | GPIO5 | | |
| 19 | GPIO6 | | |
| 20 | SD | Shutdown reporting. Used for speaker-output EVMs. | |
| 21 | RESERVED | | |
| 22 | OTW | Temperature warning. Used for speaker-output EVMs. | |
| 23 | RESERVED | | |
| 24 | RESERVED | | |
| 25 | GND | Ground | |
| 26 | GND | Ground | |
| 27 | RESERVED | | |
| 28 | RESERVED | | |
| 29 | RESERVED | | |
| 30 | RESERVED | | |
| 31 | GND | Ground | |
| 32 | GND | Ground | |
| 33 | +5V | +5-Vdc power supply (output) | |
| 34 | +5V | +5-Vdc power supply (output) | |

Table 3-1. J11 Pin Description

3.2 Digital Audio Interface, Input (J12)

The digital audio interface contains digital audio signal data (I2S), clocks, etc. See the TAS3108 data manual for signal timing and details not covered in this document.

| PIN NUMBER | NET-NAME AT SCHEMATICS | DESCRIPTION |
|---------------|---------------------------|-----------------------------|
| 1 | GND | Ground |
| 2 | MCLK | Master clock input |
| 3 | GND | Ground |
| 4 | SDIN1 | I2S data 1, Channel 1 and 2 |
| 5 | SDIN2 | I2S data 2, Channel 3 and 4 |
| 6 | SDIN3 | I2S data 3, Channel 5 and 6 |
| 7 | SDIN4 | I2S data 4, Channel 7 and 8 |
| 8 | | Reserved |
| 9 | | Reserved |
| 10 | GND | Ground |
| 11 | SCLK | I2S bit clock |
| 12 | GND | Ground |
| 13 | LRCLK | I2S left-right clock |
| 14 | GND | Ground |
| 15 | | Reserved |
| 16 | GND | Ground |

Table 3-2. J12 Pin Description



3.3 Control Interface, Output (J21)

This interface connects the TAS3108EVM2 board to a TI DAC8-DIT2 output board or a general amplifier power EVM. This is a general-purpose interface, so not all signals are used by the TAS3108. Unused signals are shaded in Table 3-3.

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION | |
|---------|---------------------------|---|--|
| 1 | GND | Ground | |
| 2 | RESERVED | | |
| 3 | GND | Ground | |
| 4 | RESET | System reset (bidirectional). Activate MUTE before RESET for quiet reset. | |
| 5 | RESERVED | | |
| 6 | MUTE | Ramp volume from any setting to noiseless soft mute. Mute can also be activated by I2C. | |
| 7 | PDN | Power down. TAS3108 goes ino power down state when activated. | |
| 8 | RESERVED | | |
| 9 | RESERVED | | |
| 10 | SDA | I2C data clock | |
| 11 | GND | Ground | |
| 12 | SCL | I2C bit clock | |
| 13 | GPIO1 | | |
| 14 | GPIO2 | | |
| 15 | GPIO3 | | |
| 16 | GPIO4 | General-purpose input/output 4, used to reset the TAS3108 after programming. | |
| 17 | GND | Ground | |
| 18 | GPIO5 | | |
| 19 | GPIO6 | | |
| 20 | SD | Shutdown reporting. Used for speaker output EVMs. | |
| 21 | RESERVED | | |
| 22 | OTW | Temperature warning. Used for speaker output EVMs. | |
| 23 | RESERVED | | |
| 24 | RESERVED | | |
| 25 | GND | Ground | |
| 26 | GND | Ground | |
| 27 | RESERVED | | |
| 28 | RESERVED | | |
| 29 | RESERVED | | |
| 30 | RESERVED | | |
| 31 | GND | Ground | |
| 32 | GND | Ground | |
| 33 | +5V | +5-Vdc power supply (output) | |
| 34 | +5V | +5-Vdc power supply (output) | |

Table 3-3. J21 Pin Description

3.4 Digital Audio Interface, output (J22)

The digital audio interface contains digital audio signal data (I2S), clocks, etc. See the TAS3108 data manual for signal timing and details not covered in this document.

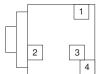
| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION |
|---------|---------------------------|------------------------------|
| 1 | GND | Ground |
| 2 | MCLKO | Master clock output |
| 3 | GND | Ground |
| 4 | SDOUT1 | I2S data 1, channels 1 and 2 |
| 5 | SDOUT2 | I2S data 2, channels 3 and 4 |
| 6 | SDOUT3 | I2S data 3, channels 5 and 6 |
| 7 | SDOUT4 | I2S data 4, channels 7 and 8 |
| 8 | | Reserved |
| 9 | | Reserved |
| 10 | GND | Ground |
| 11 | SCLKOUT | I2S bit clock output |
| 12 | GND | Ground |
| 13 | LRCLKO | I2S left-right clock output |
| 14 | GND | Ground |
| 15 | | Reserved |
| 16 | GND | Ground |

Table 3-4. J22 Pin Description

3.5 Connectors on the Input-USB board

3.5.1 Analog Inputs

The mini-jack 3.5-mm connector for analog inputs is shown in Figure 3-1.



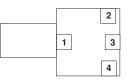
PCB Connector (Top View)

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION | | |
|---------|---------------------------|------------------------|--|--|
| 1 | CH1 | Channel 1 input – tip | | |
| 2 | AGND | Analog ground – sleeve | | |
| 3 | | For future use | | |
| 4 | CH2 | Channel 2 input – ring | | |



3.5.2 SPDIF Coax

The SPDIF input for coax is shown in Figure 3-2.



PCB Connector (Top View)

Figure 3-2. J140 Pin Numbers

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION |
|---------|---------------------------|------------------|
| 1 | GND | Ground |
| 2 | IN1 | Coax SPDIF input |
| 3 | IN1 | Coax SPDIF input |
| 4 | IN1 | Coax SPDIF input |

3.5.3 AP PSIA Interface

The input-USB board provides the ability to input I2S directly into the PurePath EVM. I2S source could be, for example, an Audio Precision with a Programmable Serial Interface Adaptor (PSIA).

Default jumper settings are shown in Figure 3-3. In this setting, data out is: analog channels 1 and 2 routed to Data1, analog channels 3 and 4 to Data2, etc., when analog inputs are selected. When digital input is selected, either coax or TosLink channel A+B is copied into all data outputs.

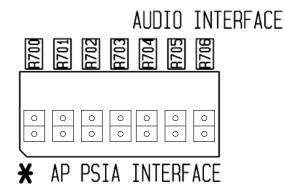
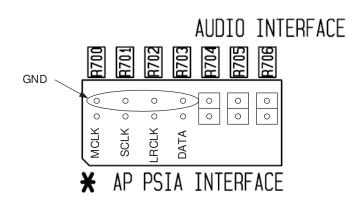
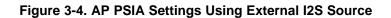


Figure 3-3. AP PSIA Default Setting

When using the input-USB board with an external I2S source connection, the jumper settings in Figure 3-4 should be used. Placing the jumper as shown copies I2S data into all data outputs.







| | MCLK | SCLK | LRCLK | SDATA1 | SDATA2 | SDATA3 | SDATA4 |
|---|------|------|-------|--------|--------|--------|--------|
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | (° | 0 | 0 | 0 | 0 | 0 | 0 |
| | ¥ | AP | PS | IA | IN | ERF | FACE |



| Table 3-7. AP PSIA Pin Description | Table | 3-7. AP | PSIA Pin | Description |
|------------------------------------|-------|---------|----------|-------------|
|------------------------------------|-------|---------|----------|-------------|

| PIN NO | PIN NO. NET-NAME AT SCHEMATICS | | DESCRIPTION |
|--------|--------------------------------|---------------|---------------------------------------|
| MCLK | 1 | MCLK Source | From MCLK source |
| | 2 | MCLK Out | MCLK output |
| | 3 | GND | Ground |
| SCLK | 1 | SCLK Source | From SCLK source |
| | 2 | SCLK Out | SCLK ouput |
| | 3 | GND | Ground |
| LRCLK | 1 | LRCLK Source | From LRCLK source |
| | 2 | LRCLK Out | LRCLK output |
| | 3 | GND | Ground |
| SDATA1 | 1 | SDATA1 Source | From SPDIF or analog channels 1 and 2 |
| | 2 | SDATA1 Out | SDATA1 output |
| | 3 | GND | Ground |
| SDATA2 | 1 | SDATA2 Source | From SPDIF or analog channels 3 and 4 |
| | 2 | SDATA2 Out | SDATA2 output |
| | 3 | SDATA1 Out | Connected to SDATA1 Out |
| SDATA3 | 1 | SDATA3 Source | From SPDIF or analog channels 5 and 6 |
| | 2 | SDATA3 Out | SDATA3 output |
| | 3 | SDATA1 Out | Connected to SDATA1 Out |



| PIN NO. | | NET-NAME AT SCHEMATICS | DESCRIPTION |
|---------|---|---------------------------|---------------------------------------|
| SDATA4 | 1 | SDATA4 Source | From SPDIF or analog channels 7 and 8 |
| | 2 | SDATA4 Out | SDATA4 output |
| | 3 | SDATA1 Out | Connected to SDATA1 Out |

Table 3-7. AP PSIA Pin Description (continued)

3.5.4 I2C Connector (J301)



PCB Connector (Top View)

Figure 3-6. J301 Pin Numbers

Table 3-8. J301 Pin Description

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION |
|---------|---------------------------|-------------|
| 1 | SCL | I2C clock |
| 2 | SDA | I2C data |
| 3 | GND | Ground |

3.5.5 Control Interface (J800)

This interface connects the EVM.

| Table 3-9. J800 Pin Descri | iption |
|----------------------------|--------|
|----------------------------|--------|

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION | |
|---------|---------------------------|---|--|
| 1 | GND | Ground | |
| 2 | RESERVED | | |
| 3 | GND | Ground | |
| 4 | RESET | System reset (bidirectional). Activate MUTE before RESET for quiet reset. | |
| 5 | RESERVED | | |
| 6 | MUTE | Activate MUTE pin on modulator | |
| 7 | RESERVED | | |
| 8 | RESERVED | | |
| 9 | RESERVED | | |
| 10 | SDA | I2C data clock | |
| 11 | GND | Ground | |
| 12 | SCL | I2C bit clock | |
| 13 | GPIO1 | General-purpose port for GUIs | |
| 14 | GPIO2 | General-purpose port for GUIs | |
| 15 | GPIO3 | General-purpose port for GUIs | |
| 16 | GPIO4 | General-purpose port for GUIs | |
| 17 | GND | Ground | |
| 18 | GPIO5 | General-purpose port for GUIs | |

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION |
|---------|---------------------------|-------------------------------|
| 19 | GPIO6 | General-purpose port for GUIs |
| 20 | SD1 | Shutdown reporting |
| 21 | SD2 | Shutdown reporting |
| 22 | TW1 | Temperature warning |
| 23 | TW2 | Temperature warning |
| 24 | RESERVED | |
| 25 | GND | Ground |
| 26 | GND | Ground |
| 27 | RESERVED | |
| 28 | RESERVED | |
| 29 | RESERVED | |
| 30 | RESERVED | |
| 31 | GND | Ground |
| 32 | GND | Ground |
| 33 | +5V | +5-Vdc power supply (output) |
| 34 | +5V | +5-Vdc power supply (output) |

Table 3-9. J800 Pin Description (continued)

3.6 Connectors on the DAC8-DIT2 Board

3.6.1 Analog Outputs

The mini-jack 3.5-mm connector for analog outputs is shown in Figure 3-7.



PCB Connector (Top View)

Figure 3-7. J71 to J74 Pin Numbers

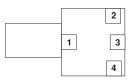
Table 3-10. J71 Pin Description

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION | |
|---------|---------------------------|--------------------------------|--|
| 1 | CH1 | Channel 1, left output – tip | |
| 2 | AGND | Analog ground – sleeve | |
| 3 | | For future use | |
| 4 | CH2 | Channel 2, right output – ring | |



3.6.2 3.6.2 SPDIF Coax

The SPDIF input for coax is shown in Figure 3-8.



PCB Connector (Top View)

Figure 3-8. J62 Pin Numbers

Table 3-11. J62 Pin Description

| PIN NO. | NET-NAME AT SCHEMATICS | DESCRIPTION | |
|---------|---------------------------|-------------------|--|
| 1 | GND | Ground | |
| 2 | IN1 | Coax SPDIF output | |
| 3 | IN1 | Coax SPDIF output | |
| 4 | IN1 | Coax SPDIF output | |

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