



## CODEC

### CDB4265 Evaluation Board

The CDB4265 evaluation board is an excellent means for evaluating the CS4265 CODEC. System timing for I<sup>2</sup>S, Left-Justified and Right-Justified interface formats can be provided by the CS4265, the CS8416, or by a PCM I/O stake header with an external source connected. RCA phono jacks are provided for the CS4265 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS4265. The Windows® software provides a GUI to make configuration of the CDB4265 easy. The software communicates through the PC's serial port to configure the control port registers so that all features of the CS4265 can be evaluated. The board may also be configured to accept external timing and data signals for operation in a user application during system development.

#### Features:

- Coaxial and Optical Connections for CS4265 S/PDIF Transmitter Output
- CS8416 S/PDIF Digital Audio Receiver
- Header for external PCM serial audio I/O
- 3.3 V Logic Interface
- Pre-defined Software Scripts
- Windows Compatible Software Interface

598-1001-ND (CDB4265) ..... 392.04

### CDB4271 Evaluation Board

This is an excellent means for evaluating the CS4271 stereo CODEC. Evaluation requires an analog/digital signal source, and analyzer, and power supplies. Windows PC compatible computer may be used to evaluate the CS4271 in control port mode. System timing can be provided by the CS4271, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. RCA phono jacks are provided for the CS4271 analog outputs and inputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406. Microsoft Windows® software provided a GUI to make configuration of the board easy. The software communicates through the PC's parallel port to configure the hardware so all features can be evaluated.

#### Features:

- Single-ended inputs • CS8406 S/PDIF digital audio transmitter • CS8416 S/PDIF digital audio receiver
- Header for optional external configuration of CS4271 • Header for external DSP serial audio I/O • 3.3V - 5.0V Logic Interface

598-1003-ND (CDB4271) ..... 294.03

### CDB6422 Evaluation Board

Provides an easy platform to evaluate the performance of the CS6422 echo cancelling IC in a target system. To facilitate evaluation, the board provides a wide selection of network interfacing options (analog telephone line, µ-law/a-law PCM data, or analog RCA jack). The analog interfaces support both fixed and variable gain options to allow for level-matching with target hardware. The board includes a keypad and a DTMF generator to enable dialing on standard analog telephone systems.

The board can operate from a single +12V power supply and can be used in a stand-alone configuration allowing for easy testing in car cellular hands-free applications.

598-1160-ND (CDB6422) ..... 907.50

### CDB48500 Evaluation Board

The kit is composed of the CDB48500 customer development board and the CDB USB MASTER Control Board. It provides a practical platform for emulating a typical multichannel audio system application. The CDB USB MASTER is a USB control board used to interface the host PC to the CDB48500 board, and convert GUI commands into the serial control protocol required for configuring the CS485XX DSP, (2) CS42448 CODECs, and CS8416 S/PDIF receiver ICs.

598-1284-ND (CDB48500-USB) ..... 181.50

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
<b>AC97 CODEC – RoHS Compliant</b>				
AC '97 with Headphone Amp, S/PDIF Transmitter, 20-Bit DAC, 18-Bit ADC, 48-LQFP	598-1181-ND	6.55	5.82	CS4202-JQZ
AC '97 for Portable Computing, Sample-Rate Converter, 20-Bit Stereo DAC, 18-Bit Stereo ADC, 48-LQFP	598-1182-ND	8.20	7.29	CS4205-KQZ
AC '97 2.1 Compatible Stereo Audio, 48-TQFP	598-1044-ND	5.52	4.92	CS4299-JQZ
<b>Multi-Channel CODEC – RoHS Compliant</b>				
102 dB, 2-Ch. AD, 105 dB 6-Ch. DA Surround 24-Bit, 192 kHz, 48-LQFP	598-1027-ND	6.90	6.14	CS42406-CQZ
110 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP, 6-Ch. with PLL	598-1029-ND	9.04	8.14	CS42418-CQZ
114 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP with PLL	598-1031-ND	13.92	12.53	CS42428-CQZ
105 dB 6-Ch. AD, 108 dB 8-Ch. DA, 192 kHz, 52-MQFP, TDM	598-1032-ND	12.41	11.18	CS42438-CMZ

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
105 dB 6-Ch. AD, 108 dB 8-Ch. DA, 192 kHz, 64-LQFP with Input MUX	598-1033-ND	13.42	12.08	CS42448-CQZ
105dB 4-Ch. 24Bit A/D, 108dB 8-Ch. 24Bit D/A, 192kHz, I2C and SPI, 64-LQFP	598-1183-ND	12.23	11.01	CS42888-CQZ
110 dB 2-Ch. AD, 114 dB 6-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP 6-Ch. with S/PDIF Rx	598-1035-ND	9.05	8.05	CS42516-CQZ
110 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP 6-Ch. with S/PDIF Rx	598-1036-ND	10.29	9.27	CS42518-CQZ
114 dB 2-Ch. AD, 114 dB 6-Ch. AD Surround 24-Bit, 192 kHz, 64-LQFP with S/PDIF Rx	598-1037-ND	12.31	11.08	CS42526-CQZ
114 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP with S/PDIF Rx	598-1038-ND	15.25	13.73	CS42528-CQZ
<b>Stereo Audio CODEC – RoHS Compliant</b>				
105 dB, 24-Bit, 192 kHz, 48-LQFP with MUX, PGA and Asynchronous Support	598-1034-ND	6.61	5.88	CS4245-CQZ
105 dB, 24-Bit, 192 kHz, 32-QFN with S/PDIF Tx	598-1039-ND	6.43	5.72	CS4265-CNZ
105 dB, 24-Bit, 192 kHz, 24-TSSOP with 3.3V Operation	598-1040-5-ND	4.84	4.03	CS4270-CZZ
108 dB AD, 114 dB DA, 24-Bit, 192 kHz, 28-TSSOP with Oscillator	598-1041-5-ND	8.15	7.25	CS4271-CZZ
114 dB, 24-Bit, 192 kHz, 28-TSSOP with Oscillator	598-1042-5-ND	9.22	8.30	CS4272-CZZ

## Analog-to-Digital Converters

### CDB5381 Evaluation Board

The CDB5381 evaluation board is an excellent means for quickly evaluating the CS5381 24-bit, stereo A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

#### Features:

- Demonstrates recommended layout and grounding arrangements • CS8406 generates S/PDIF and EIAJ-340 compatible digital audio

598-1008-ND (CDB5381) ..... 294.03

### CDB5529 Evaluation Board and Software

The CDB5529 is a tool designed to evaluate the performance of the CS5529 16-bit Analog-to-Digital Converter (ADC). The board includes an LT1019 voltage reference, an 80C51 microcontroller, an RS232 driver/receiver and firmware. The 8051 controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5529's registers. The CDB5529 also includes software for Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

#### Features:

- RS-232 Serial Communication with PC • On-Board 80C51 Microcontroller • On-Board Voltage Reference • Lab Windows/CVI™ Evaluation Software • Integrated RS-232 Test Mode

598-1015-ND (CDB5529) ..... 381.83

### CDB5534 Evaluation Board and Software

The CDB5534U is a tool designed to evaluate the functionality and performance of CS5534. The board includes a C8051F320 microcontroller with a USB interface. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5534's registers and functions. This includes software for Data Capture, Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

#### Features:

- USB Communication with PC • On-Board Microcontroller • On-Board Voltage Reference • Evaluation Software • Interface Header for External Microcontroller

598-1016-ND (CDB5534U) ..... 268.44

### CDB5571 and CDK5571 Evaluation Boards

A versatile tool designed for evaluating the functionality and performance of the CS5571 ADC (Analog-to-Digital Converter). The SPI serial port on the CDB5571 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset. This evaluation board is designed to connect to your data capture system or will interface to the CapturePlus II data acquisition system available from Cirrus Logic.

The CS5571 delta-sigma ADC produces fully settled conversions to full specified accuracy at 100kSps. This ability to produce fully settled conversions for every sample makes it suitable for converting multiplexed input signals. To help evaluate this feature, includes two single-ended analog inputs multiplexed into the CS5571. The multiplexer can be switched at the CS5571 ADC sample speed and the ADC will produce fully settled conversion data for each input channel. All evaluation board functionality for evaluating the CS5571 ADC is accessed through the connector interface and board-level options.

598-1275-ND (CDB5571) — RoHS Compliant ..... 98.06

598-1279-ND (CDK5571) — CDB5571 with CapturePlus II System — RoHS Compliant ..... 385.95

(Continued)

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