



CODEC

CDB4265 Evaluation Board

The CDB4265 evaluation board is an excellent means for evaluating the CS4265 CODEC. System timing for I²S, 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.
AC97 CODEC – RoHS Compliant				
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
Multi-Channel CODEC – RoHS Compliant				
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
Stereo Audio CODEC – RoHS Compliant				
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)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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CDB5560 and CDK5560 Evaluation Boards

A versatile tool designed for evaluating the functionality and performance of the CS5560 ADC (Analog-to-Digital Converter). The SPI serial port on the CDB5560 evaluation board is configured in Master mode and will start transmitting data after power-up upon reset.

Table with 2 columns: Part Number and Price. Includes 598-1273-ND and 598-1277-ND.

CDB5530U Evaluation Board

An inexpensive tool designed to evaluate the functionality and performance of the CS5530. The CS5530 data sheet should be read and consulted when using the CDB5530U evaluation board.

Table with 2 columns: Part Number and Price. Includes 598-1158-ND.

CDB5368 Evaluation Board

An excellent means for quickly evaluating the CS5368 24-bit, 192 kHz A/D converter. Evaluation requires only a digital signal analyzer, an analog signal source and a power supply.

Table with 2 columns: Part Number and Price. Includes 598-1157-ND.

Large table with 5 columns: Description, Digi-Key Part No., Price Each 1 and 25, and Cirrus Logic Part No. It is divided into Audio Analog to Digital Converters and Industrial Analog to Digital Converters.

Table with 5 columns: Description, Digi-Key Part No., Price Each 1 and 25, and Cirrus Logic Part No. Contains various Delta-Sigma ADC models.



Digital-to-Analog Converters

Table with 5 columns: Description, Digi-Key Part No., Price Each 1 and 25, and Cirrus Logic Part No. Contains various Digital-to-Analog Converter models.

(Continued)

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Digital-to-Analog Converters (Cont.)

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
24-bit Delta-Sigma, 6-channel, up to 192 kHz sample rate, 103dB dynamic range, output mute control, digital de-emphasis, filtered line-level outputs, Poppard Technology, 20-TSSOP	598-1057-5-ND	5.23	4.66	CS4361-CZZ
24-bit Delta-Sigma, 6-channel, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, matched PCM and DSD Analog output levels, 48-LQFP	598-1058-ND	9.98	8.99	CS4362A-COZ
24-bit Delta-Sigma, 6-channel, up to 192 kHz sample rate, 103dB dynamic range, direct stream digital mode, volume control, TDM serial interface, ATAPI channel mixing, 48-LQFP	598-1059-ND	9.49	8.44	CS4364-COZ
24-bit Delta-Sigma, 6-channel, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, matched PCM and DSD analog audio outputs, 48-LQFP	598-1060-ND	10.24	9.22	CS4365-COZ
24-bit Delta-Sigma, 8-channel, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, matched PCM and DSD analog audio outputs, 48-LQFP	598-1063-ND	14.36	12.93	CS4385-COZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 108dB dynamic range, Not recommended for new designs, 20-TSSOP	598-1064-5-ND	5.26	4.67	CS4391A-KZZ
24-bit Delta-Sigma, stereo, up to 192 kHz sample rate, 114dB dynamic range, direct stream digital mode, volume control, single +3V supply, ATAPI mixing functions, 20-TSSOP	598-1065-5-ND	8.15	7.25	CS4392-KZZ
Up to 24-bit Delta-Sigma, up to 192 kHz sample rate, PCM and DSD inputs, 120dB dynamic range, external muting control, volume control, stand-alone or I2C/SPI control, 28-TSSOP	598-1067-5-ND	9.15	8.24	CS4398-CZZ
Up to 24-bit Delta-Sigma, up to 192 kHz sample rate, 109dB dynamic range, integrated PLL, muting control for individual channels, digital volume control, I2C/SPI control, ATAPI mixing, 24-TSSOP	598-1184-5-ND	5.66	5.03	CS4350-DZZ
Up to 24-bit Delta-Sigma, up to 192 kHz sample rate, 109dB dynamic range, integrated PLL, muting control for individual channels, digital volume control, I2C/SPI control, ATAPI mixing, 24-TSSOP	598-1185-5-ND	5.23	4.36	CS4350-CZZ
24-bit Delta-Sigma, up to 192 kHz sample rate, 106dB (A-wt) dynamic range, integrated line driver, 2Vrms line-level output, stereo mute, analog low-pass filter, Poppard Technology, 20-TSSOP	598-1186-5-ND	2.92	2.44	CS4352-CZZ

CDB4344 Evaluation Board

This board is an excellent means for quickly evaluating the CS4344 24-bit, 10 pin stereo D/A Converter. The CS8416 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF and EIAJ-340 compatible audio data. The board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features: • Demonstrates recommended layout and grounding arrangements • Header for external PCM audio

598-1006-ND (CDB4344) 245.03

CDB4361 Evaluation Board

An excellent means for quickly evaluating the CS4361 24-bit, 20-pin, 6-channel D/A converter. Evaluation requires an analog signal analyzer, a digital signal source and a power supply. Analog line-level outputs are provided via RCA phono jacks.

The CS8416 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF and EIAJ-340-compatible audio data. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1153-ND (CDB4361) 343.04

CDB4398 Evaluation Board

An excellent means for quickly evaluating the CS4398 24-bit, high performance stereo D/A converter. Evaluation requires an analog signal analyzer, a digital signal source, a PC for controlling the CS4398 (stand alone operation is also available) and a power supply. Analog line-level outputs are provided via RCA phono jacks and balanced XLR.

The CS8414 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF, and EIAJ-340-compatible audio data. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1155-ND (CDB4398) 343.04

Portable Audio Converters

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
Low Power, Stereo CODEC with Headphone Amp, 32-QFP	598-1045-ND	4.92	4.11	CS42L51-CNZ
98dB, 96kHz, Stereo AD, 24-Bit, Low Power, 32-QFN	598-1191-ND	4.66	3.89	CS53L21-CNZ
Stereo DAC, 96kHz, 98dB, 24-Bit, Low Power, 32-QFN	598-1187-ND	4.39	3.66	CS43L21-CNZ

CDB42L51 Evaluation Board

The CDB42L51 evaluation board is an excellent means for evaluating the CS42L51 CODEC. System timing can be provided by the CS8415, by the CS42L51 with supplied master clock, or b and I/O stake header with a DSP connected. RCA phono jacks are provided for the CS42L51 analog inputs and outputs. 1/18th inch jacks are also available for microphone input and headphone output. Digital data I/O is available via RCA phono or optical connectors. The Windows® software provides a GUI to make configuration of the CDB42L51 easy. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features:

- MUX's Analog Output
- 8 - 96 kHz S/PDIF Interface
- I/O Stake Headers
- 1.8 - 3.3V Logic Interface
- Layout and Grounding Recommendations

598-1005-ND (CDB42L51) 539.06

CobraNet™

The CobraNet solution leverages the rapid developments in the computer networking industry to provide an increasingly cost effective connectivity solution for audio professionals worldwide. It's based on the highly integrated CS1810xx CobraNet Silicon Series, providing an interface in the form of a compact, low power, low cost module. Featuring 8 or 16 simultaneous channels of digital audio input and output, the CM-2 is designed to be easily integrated into a wide variety of audio products such as signal processors, mixers, amplifiers, ceiling speakers and self-powered loudspeakers.

Features:

- 100BASE-TX Ethernet Interface - 100Mbps, full-duplex Ethernet, fully compliant with IEEE 802.3u Standard
- Secondary 100BASE-TX Ethernet Interface - redundant network connection for fault tolerance
- Quad Synchronous Serial Output Ports - capable of supplying and receiving 8 or 6 channels
- TFTP Support - firmware updates over the network
- Low Latency - selectable 1.33, 2.66 or 5.33ms across network
- Status LEDs - Link, Activity and CobraNet conductor status for each Ethernet jack
- Ability to send audio from any CobraNet interface to any other - unlimited addressing, unlimited capacity

598-1007-ND Evaluation Board CS496122 1796.85

598-1023-ND Evaluation Board for CS44600 570.91

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
Module CobraNet 1810 CM2 MT	598-1020-ND	102.91	—	CPB181022-CM2-MT
Module CobraNet 4961 CM2 FB	598-1021-ND	114.35	—	CPB496122-CM2-FB
Module CobraNet 4961 CM2 MT	598-1022-ND	114.35	—	CPB496122-CM2-MT
2x2-Channel, 144-LQFP	598-1024-ND	16.57	13.99	CS181002-COZ
8x8-Channel, 144-LQFP	598-1025-ND	18.18	15.36	CS181012-COZ
16x16-Channel, 144-LQFP	598-1026-ND	20.36	17.19	CS181022-COZ
Audio DSP CobraNet 144-LQFP	598-1071-ND	19.65	16.60	CS496102-COZ
Audio DSP CobraNet 144-LQFP	598-1072-ND	21.25	17.95	CS496112-COZ
Audio DSP CobraNet 144-LQFP	598-1073-ND	23.43	19.79	CS496122-COZ

◆ RoHS Compliant

CDB8952 Evaluation Board

Provides a platform for evaluating the CS8952 10 Base-T and 100 Base-X Transceiver. It is designed to plug into a transceiver test box via a standard 40-pin MII connector. System designers can use the CDB8952 to fully exercise the CS8952 without the time and expense of custom prototyping. Though the CDB8952 is configured from the factory for 5V operation with the power supplied from the test box, it may also be configured for 3.3V MII systems. The CDB8952 may be optionally configured with a fiber interface module for 100Base-FX testing.

598-1162-ND (CDB8952T) 617.82

CDB8130 Evaluation Board

Fast and easy evaluation of the CS8130 infrared transceiver. The board contains an RS-232 level shifter and DB-9 serial connector to allow easy interfacing to a standard PC serial (COM) port. The board is shipped with a complete set of diagnostic and test software, as well as the Infrared Data Association Link Access Protocol (IrLAP) reference code.

598-1161-ND (CDB8130) 617.82

Development Kits for ARM® Processors

Description	Digi-Key Part No.	Price Each	Cirrus Logic Part No.
Engineering Development Kit for EP9302 Processor	598-1132-ND	226.88	EDB9302A-Z
Embedded Processor Development System for EP9312/EP9315	598-1144-ND	226.88	EDB9315A-Z
Embedded Processor Development System for EP9307	598-1133-ND	226.88	EDB9307A-Z
ERD-9307IPR Internet Protocol Radio	598-1281-ND	456.21	ERD-9307IPR
EDP7312 Development Kit	598-1209-ND	453.75	EDB7312

ARM® Processors

Description	Digi-Key Part No.	Price Each	Cirrus Logic Part No.
ARM720T Processor	598-1134-ND	15.96	EP7312-CVZ
ARM720T Processor	598-1135-ND	18.44	EP7312-IVZ
166MHz ARM920T Processor	598-1136-ND	16.32	EP9301-COZ
200MHz ARM9 Processor	598-1137-ND	16.92	EP9302-COZ
200MHz ARM9 Processor	598-1138-ND	21.82	EP9307-CRZ
200MHz ARM9 Processor	598-1139-ND	30.29	EP9315-CBZ
ARM720T Processor	598-1210-ND	14.36	EP7309-CB
ARM720T Processor	598-1213-ND	12.90	EP7309-CV

◆ RoHS Compliant

(Continued)

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