



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CS48DV2/6 Processor with Dolby® Volume

The final solution to inconsistent volume issues

CS48DV2/6 Processor Overview:

The CS48DV2 and CS48DV6 processors give OEMs a cost effective, fixed-function, simple-to-design Dolby Volume solution

Dolby Volume Overview:

- Consistent volume across all input sources and all content
- Consistent volume within the same program
- Eliminates need to constantly adjust volume
- Full, rich, and consistent experience at all volume levels
- Improved vocal and surround perception at low volume levels
- No artifacts or audible side effects

CS48DV2/6 Processor Features:

- 2.0 to 2.1 Channel / 3.0 to 5.1 Channel 32-bit fixed-function Dolby Volume processing (512 FFT Window / 20-Band)
- CS48DV2 supports up to 2.1 channel 32-bit PCM I/O at Fs of 32kHz, 44.1kHz & 48kHz
- CS48DV6 supports up to 5.1 channel 32-bit PCM I/O at Fs of 32kHz, 44.1kHz & 48kHz
- Integrated S/PDIF Transmitter
- 2/6 Channel DSD input support (Rev. B)
- SPI™/I²C® serial control port
- Low-power standby: 260µW

CS48DV2/6 Key Benefits:

- Easy to design – only 10 parameters to control from host microcontroller
- High-performance & low cost
- No external SRAM/SDRAM memory needed
- Dedicated part number simplifies tracking and reporting tasks, reducing liability
- Firmware image can be downloaded from either host microcontroller or from external SPI Flash device at speeds up to 12.288Mhz

CS48DV2/6 Processor Target Markets:

Digital Televisions



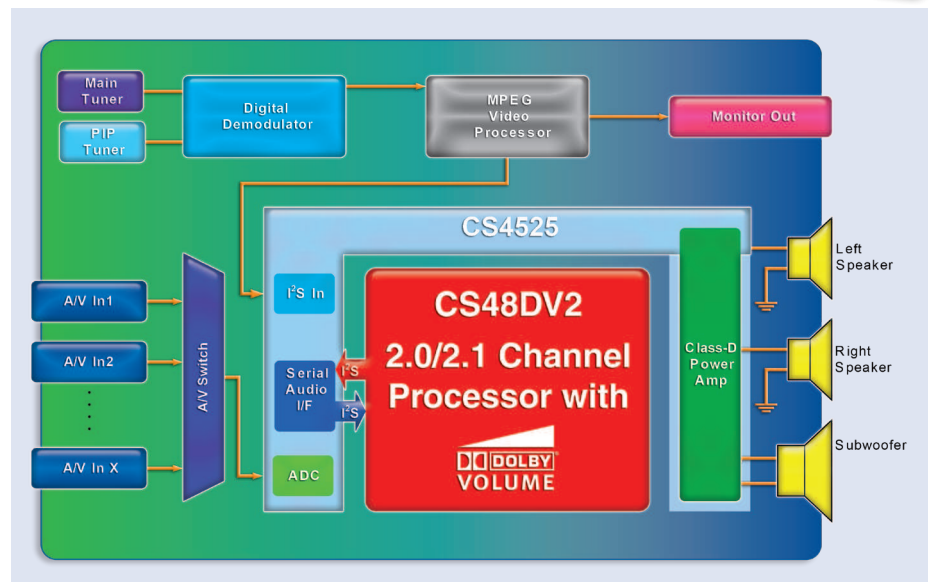
5.1 Channel AVRs



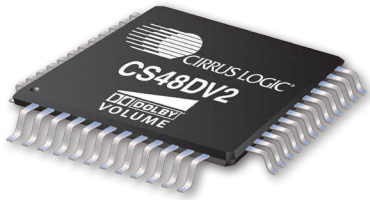
Automotive Entertainment



2.1/5.1 Channel Hi-Fi, DVD Receivers and HTiBs



The CS48DV2 Processor with Dolby Volume implemented in a 2.1 channel DTV application



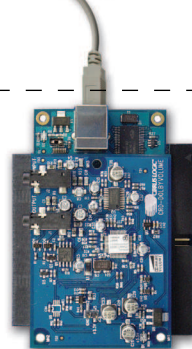
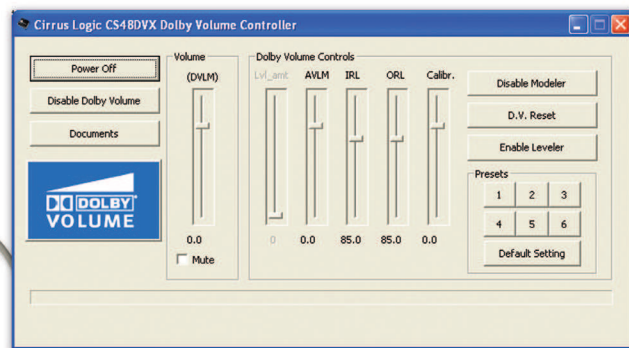
Using the Cirrus Logic CS48DVx / CS49DV8 Controller GUI for Dolby Volume

Ordering Information:

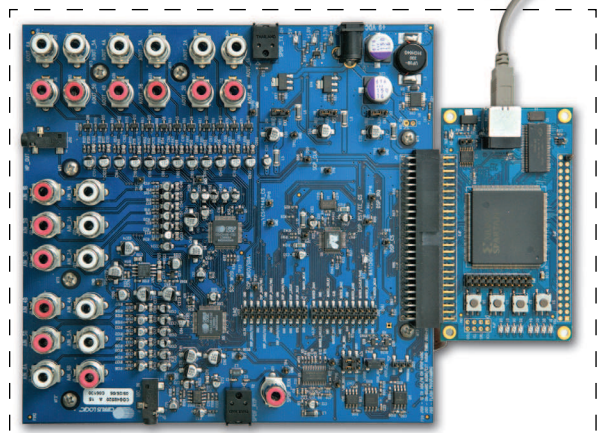
CS48DV2/6 Processor Family

Device(s)	CS48DV2A-CQZ <i>(Available December '07)</i> CS48DV2B-CQZ <i>(Available April '08)</i> CS48DV6B-CQZ <i>(Available April '08)</i> CS48DV2A-DQZ <i>(Automotive)</i> <i>(Available December '07)</i>
Package	48-Pin LQFP
Eval. Boards	CRD48DV2-USB CDB48DV6-USB
Application Note	AN298PPMN
Tools	<u>Cirrus Logic CS48DVx / CS49DV8 Dolby Volume Controller GUI:</u> software tool offers a simple and quick method during the evaluation & design stage

The CS48DV2/6 ICs are programmed with the latest Dolby Volume firmware using the Cirrus Logic proprietary GUI software development & evaluation tool called Dolby Volume Controller. This same tool then configures the CS48DV2/6 through the SPI™/I²C® serial port via the USB 2.0 cable. The IC can be sent a command to boot itself using firmware loaded from ROM within the CS48DV2/6 (starting with Rev B Silicon - available in April, 2008), or it may be downloaded through the serial control port from either a master host microcontroller or an external I²C EEPROM or SPI Flash device. In all cases, the host microcontroller is responsible for downloading the specific hardware and software configuration commands. All Dolby Volume parameters running on the CS48DV2/6 firmware can be adjusted in real-time as well as allowing 6 different presets to be saved and recalled easily, enabling very simple and quick “A/B” listening tests for the target design.



CRD48DV2-USB
2 Channel
Dolby Volume
Evaluation Kit



CDB48DV6-USB 6 Channel Dolby Volume Evaluation Kit

