

## Product

### CMI8738-LX

USB2.0 Full Speed

USB2.0 High Speed

PCI/PCle Audio

CMI8738-SX

[CMI8738-LX](#)

CMI8738-MX

CMI8768

CMI8768+

CMI8770

CMI8786

CMI8787

CMI8788

CM8826

CM8828

CM8888

CM8888DHT

CM8888DMS

DSP Audio

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#### Introduction

With high-speed PCI V2.1 bus controller and built-in codec, CMI8738 is a highly-integrated world-only single audio chip designed for PC add-in sound cards and motherboard audio. CMI8738 series chips have been the most widely adopted cost-effective PCI audio chips in the world.

CMI-8738 supports the legacy audio – SBPRO, FM emulator, MIDI MPU-401 port. 8738-SX supports 4-channel 16-bit DACs to provide surround audio. 8738-LX or MX supports 6-channel DACs for 5.1 home theater environments and meet PC99 audio performance requirements. CMI8738-MX also provides S/PDIF digital audio interface I/O for 44.1KHz and 48KHz LPCM audio.

On the software side, CMI-8738 supports [Cmedia Xear Living](#) and [Cmedia Xear Voice](#) with Windows Drivers. Linux driver is also available in most Linux OS versions. .

Being outstanding for its full audio functions and comprehensive driver support, CMI-8738 series are the best choices for people seeking for optimum cost-effective entry-level solutions of the PC audio.

#### Product benefit

- ▶ Reduce cost in major components and narrow PCB footprint for entry level market
- ▶ Mature high quality sound card reference design speeds up your products' time to market
- ▶ Complete testing tool available for fast mass production

#### Product features

- ▶ World only single chip solution with embedded codec saving customer total BOM cost
- ▶ 32-bit PCI 2.1 compatible bus master.
- ▶ 8738-LX/MX supports 6CH DAC 5.1 surround output for movies and 3D games.
- ▶ 8738-SX supports 4CH DAC surround output for movies and 3D games.
- ▶ 8738-MX provides additional digital interface S/PDIF IN/OUT (44.1K and 48KHz).
- ▶ Built-in 32ohm earphone buffer.
- ▶ Built-in 2CH 16bit ADC.
- ▶ Supports full-duplex 44.1K/48KHz sample rate playback and recording at 16bit.
- ▶ Supports analog mixer for Line-in, Mic-in, Aux, CD inputs.
- ▶ Built-in Microphone pre-amplifier (+20dB).
- ▶ MIDI MPU-401 port/ game port.
- ▶ Built-in ZV port.
- ▶ Legacy audio SBPRO compatible.
- ▶ External E2PROM interface for custom Sub-VID/PID.
- ▶ Digital power +3.3V, analog power +5V.
- ▶ Industrial 128-pin QFP package

#### Block Diagram

