

Single-Chip Broadcast Audio/Video Decoder

CX25840/1/2/3

Highly Flexible Single-Chip Video and Broadcast Audio Decoding

Conexant's broadband communications portfolio includes a comprehensive suite of semiconductor solutions that enable the digital home and information network. The CX25840/1/2/3 is Conexant's second generation of Audio/Video (A/V) decoders built on the success of the CX23880 family of broadcast A/V PCI decoders. These devices are optimized for the regional broadcast requirements and are pin-to-pin compatible with each other. The CX25840/1/2/3 is the smallest integrated stereo broadcast A/V decoder capable of demodulating all of the most common worldwide A/V standards.

The CX25840 with no DBX and CX25841 with DBX support both the North American (BTSC) and Japanese (EIA-J) markets, respectively. The CX25842 supports the European market. And finally, for the customer who wants a single chip to address all worldwide broadcast standards, there is the CX25843. This device provides highly integrated, single-chip analog, A/V capture solutions ideal for digital video systems that support worldwide broadcast analog A/V content.

Distinguished by its high quality, flexibility, broadcast audio support, integration, and ease of use, the CX25840/1/2/3 can be designed into a wide array of applications, including set-top boxes, flat panel displays, HDTVs, and personal video recorders (PVRs).

Highly Integrated

The CX25840/1/2/3 is highly integrated, and includes anti-aliasing, noise rejection filters, and Automatic Gain Control (AGC) and DC restore circuits. Along with worldwide decoding for all common video and broadcast audio standards, processing functions such as high-quality four-lines adaptive comb filtering, arbitrary horizontal and 5-tap vertical scaling, hue, brightness, saturation, and contrast controls are also included. The audio path includes an automatic volume control function and two assignable stereo processing units for control of volume, three-band equalization, and balance.

The level of audio and video integration provided by the CX25840/1/2/3 removes the need for additional broadcast audio decoding and processing chips or external sound demodulation chips. It also reduces the overall Bill-of-Materials (BOM) for the system developer, without compromising audio and video performance.



Distinguishing Features

- Auto detection and configuration for audio/video
- Worldwide audio standards - BTSC, EIA-J, A2, NICAM, FM/AM
- Baseband audio support via I2S and AC 97
- Two 10 bit A/D
- Component video support
- Integrated anti-alias filter
- 12mm X 12mm 80-TQFP
- 4H adaptive comb
- On-chip voltage regulator

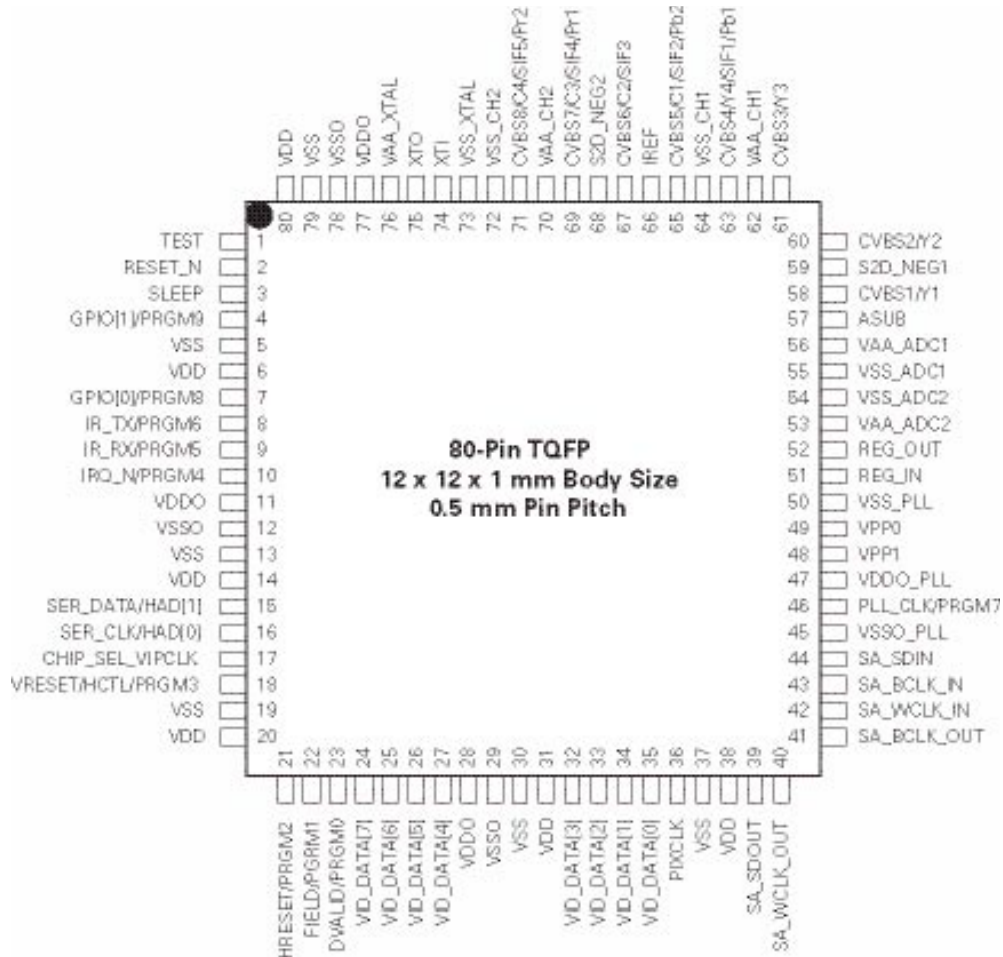
Part Number CX25840/1/2/3

Description Broadcast Audio/Video Decoder

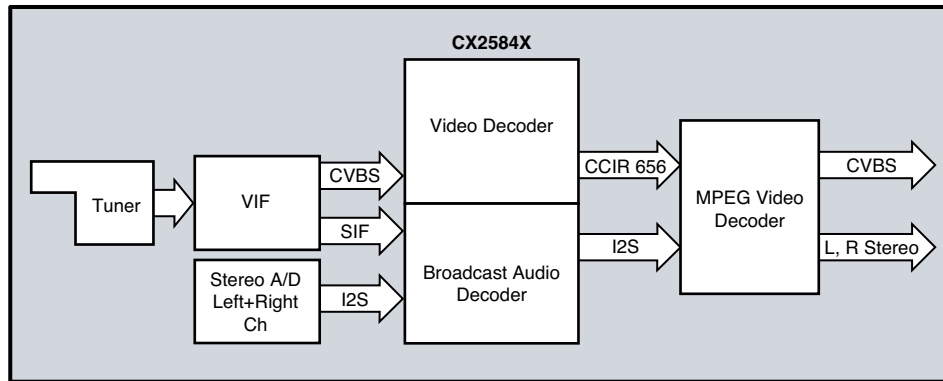
CX25840/1/2/3 System Block Diagram

Part Ordering Numbers

Part Number	Worldwide Audio Decoding	A2, NICAM, FM, AM, Audio Decoding	BTSC (with DBX), EIA-J Audio Decoding	BTSC (without DBX), EIA-J Audio Decoding	Component Video Input	VIP Host Port
CX25840				X	X	X
CX25841			X		X	X
CX25842		X			X	X
CX25843	X				X	X



CX25843, CX25842, CX25841, and CX25840 Pinout



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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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