

Glossary

ANALOG-TO-DIGITAL (A/D)

CONVERTER a mixed-signal IC that converts real-world analog signals into a digital format. Cirrus Logic offers a broad line of high-performance A/D converters that are used in a number of consumer entertainment and industrial applications.

AUDIO/VIDEO RECEIVER (AVR) also known as a receiver, a device that decodes Dolby Digital® and DTS® signals, has AM/FM radio capabilities and supports five or more speakers plus a subwoofer. Cirrus Logic enjoys a leadership position in this market with its family of high-performance digital signal processors.

CODEC coder-decoder; a chip solution that converts signals from one type to another and can perform the reverse translation. Cirrus Logic produces audio CODECs that perform A/D converter and D/A converter functions as well as video CODECs that convert uncompressed digital formats into and out of MPEG compressed formats.

DECODE to convert a compressed digital audio or video stream into an uncompressed signal that can be output to speakers, television or another device.

DIGITAL-TO-ANALOG (D/A)

CONVERTER a mixed-signal IC that converts a digital bitstream (0s and 1s) to an analog signal. Cirrus Logic is a leader in audio D/A converters.

DIGITAL SIGNAL PROCESSOR (DSP) a programmable digital IC designed to mathematically process in real-time digitized representations of analog signals to enhance, filter, decode, encode, modulate or otherwise manipulate these signals. Cirrus Logic's consumer entertainment DSPs are specialized to process audio and video signals.

DivX® an MPEG-4-based video compression technology that can shrink digital video to sizes small enough to be transported over the Internet while maintaining high visual quality.

DVD-AUDIO a format specifically designed to provide the highest possible audio fidelity capable on DVD, far exceeding the quality of conventional CDs and audio on traditional DVDs.

DVD PLAYER the fastest growing consumer electronics product in history. It is most commonly used to watch movies stored digitally on DVD; most units allow for playback of traditional music CDs as well.



DVD RECORDER first introduced commercially in late 1999, a type of device that digitally records video content onto DVD discs. Many industry analysts expect this product category to grow significantly over the next several years as consumer prices decline, ultimately replacing VCRs in many households. Cirrus Logic began initial shipments of its DVD recorder component offerings in the March 2003 quarter.

ENCODE to compress an analog input stream into a compacted digital output signal that can be communicated with greater reliability or less bandwidth, or stored on a hard disk drive or on a recordable DVD.

FABRICATION PLANT (FAB) a manufacturing facility where the front-end process of making semiconductors on silicon wafers is completed. The packaging, assembly (back-end) and testing stages are typically completed at other facilities. To maintain manufacturing flexibility and minimize capital requirements and fixed costs, Cirrus Logic uses a fabless model and relies on fabs owned and operated by third-party subcontractors.

FAST ETHERNET also known as 100 BASE-T, a protocol that supports data transfer rates of 100 Mbps. Cirrus Logic's CobraNet™ technology operates on a Fast Ethernet network.

HOME THEATER IN A BOX a consumer entertainment system sold as a package, which consists of five or more speakers, a subwoofer, an integrated or separate DVD player and an AVR. Cirrus Logic's expertise in multichannel, surround-sound audio is used by industry leaders Bose, Denon, Harmon Kardon, Kenwood, LG Electronics, Marantz, Onkyo, Panasonic, Philips, Pioneer, Technics, RCA/Thomson, Sony, Yamaha and others.

INTEGRATED CIRCUIT (IC) a semiconductor chip etched or imprinted with network or electronic components such as transistors, diodes and resistors along with their interconnections.

ISO/TS 16949 quality certification system for the design, development, production, installation and servicing of automotive-related products.

MIXED-SIGNAL a class of ICs that combines analog and digital circuitry. Cirrus Logic is a leader in mixed-signal technologies that enable today's new home and automotive entertainment products as well as high-precision industrial measurement applications.

MP3 a popular audio compression format used in a growing array of consumer entertainment products such as Flash-memory-based MP3/WMA (Windows Media® Audio) compressed audio players, CD-based MP3/WMA players and hard disk drive-based jukeboxes.

MPEG-1, MPEG-2 AND MPEG-4 standards developed by the Moving Picture Experts Group that define the standardized elements enabling the integration of the production of digital content for television; content storage on DVD/VCD/HDD; content distribution and content for DVD/VCD; and interactive graphics applications and interactive multimedia over satellites, cable and the World Wide Web.



PERSONAL VIDEO RECORDER (PVR) a consumer entertainment device that uses a built-in magnetic hard drive to store compressed digital audio and video signals. PVR users can use “time-shift” capabilities to pause and rewind live television as well as watch slow motion and instant replay while simultaneously recording a live program. Cirrus Logic's customers began retail shipping of PVRs using Cirrus Logic's CS92288 recording chip and MPEG-2 video compression technology in the March 2003 quarter.

SEMICONDUCTORS discrete devices and ICs that can control the flow of electrical signals. Silicon is the basic material on which semiconductors are fabricated.

SUPER AUDIO CD (SACD) a technology for high-resolution, multichannel digital audio recordings backed by Sony and Philips and supported by Cirrus Logic.