

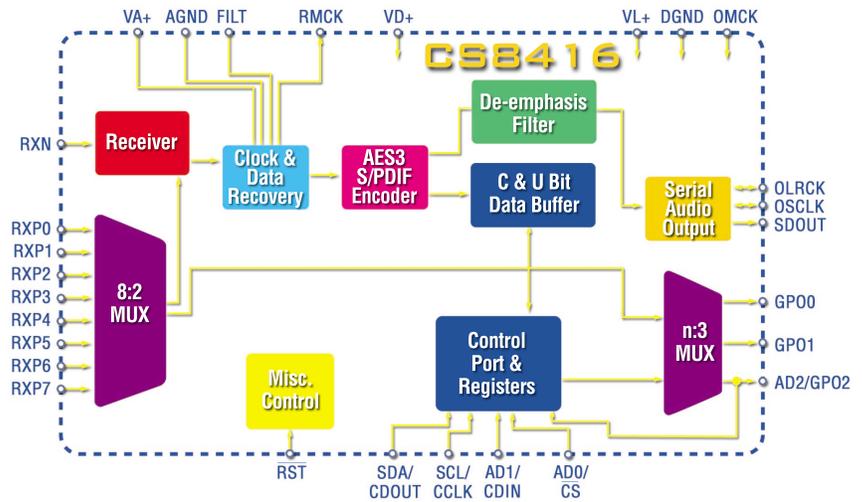
New Digital Audio Receiver is DVD-Audio (192 kHz) Ready

CS8416 Features

- Complete EIAJ CP1201, IEC-60958, AES3, S/PDIF compatible receiver
- +3.3 V analog supply (VA)
- +3.3 V to +5.0 V digital interface supply (VL)
- +3.3 V digital supply (VD)
- 8:2 S/PDIF input MUX
- AES/SPDIF input pins selectable in hardware mode
- 3 general purpose outputs (GPO) allow signal routing
- Selectable signal routing to GPO pins
- S/PDIF to TX inputs selectable in hardware mode
- Flexible 3-wire serial digital output port
- 32 kHz to 192 kHz sample frequency range
- Low jitter clock recovery
- Pin and microcontroller read access to channel status and user data
- SPI or I²C control port software mode and standalone hardware mode
- Differential cable receiver
- On-chip channel status data buffer memories
- Auto-detection of compressed audio input streams
- Decodes CD Q sub-code
- OMCK system clock mode
- Available in a 28-pin SOIC/TSSOP
- CS8416 price: \$2.56 (10K)



Actual Size



The CS8416 is a digital audio receiver that supports 192 kHz needed for next generation audio formats like DVD-Audio. Receiving and decoding audio data with sample rates up to 192kHz, it enables consumer and professional audio products to exchange S/PDIF and AES/EBU audio data. An 8:2 input multiplexer allows for up to eight channels of digital audio input data. The second output of the input multiplexer allows for a S/PDIF pass through function for added system flexibility. And, it has an extremely low jitter clock recovery mechanism that yields a very clean recovered clock from the incoming audio stream. The device also allows for selectable signal routing to three general-purpose output (GPO) pins. With its extremely low jitter performance of 200ps, the CS8416 is an industry leading 192kHz digital audio receiver. Target the CS8416 for consumer and professional applications, like audio video receivers (AVRs), CD-R, DVD receivers, multi-media speakers, digital mixing-consoles, automotive audio systems, and set-top boxes.

The CS8416 is a Cirrus Total-E™ IC solution specifically designed for entertainment electronics.