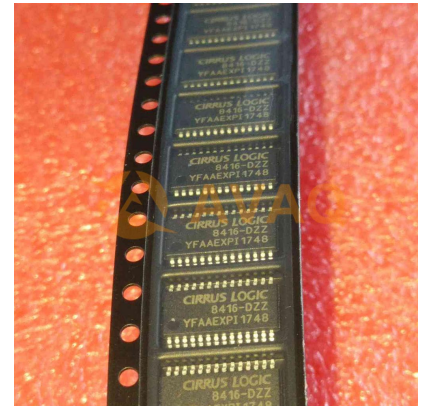


## Digital Audio Interface Receiver 1RX Automotive 28-Pin TSSOP

<b>Manufacturer:</b>	<a href="#">Cirrus Logic, Inc</a>
<b>Package/Case:</b>	TSSOP
<b>Product Type:</b>	Discrete Semiconductor Modules
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

The CS8416 is a digital audio receiver that supports sample rates up to 192 kHz. 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. 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 pins. With its extremely low-jitter performance of 200 ps, the CS8416 is an industry-leading 192 kHz digital audio receiver. The CS8416 is ideal for consumer and professional applications such as audio/video receivers, multimedia speakers, digital mixing consoles, automotive audio systems and set-top boxes.

## Key Features

Compatible with EIAJ CP1201, IEC-60958 and AES3 standards

8:2 S/PDIF input mux; selectable pins in hardware mode

Selectable signal routing to three general-purpose output 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 (serial port interface) or I<sup>2</sup>C control port software mode and standalone hardware mode

Differential cable receiver

On-chip channel status data buffer memories

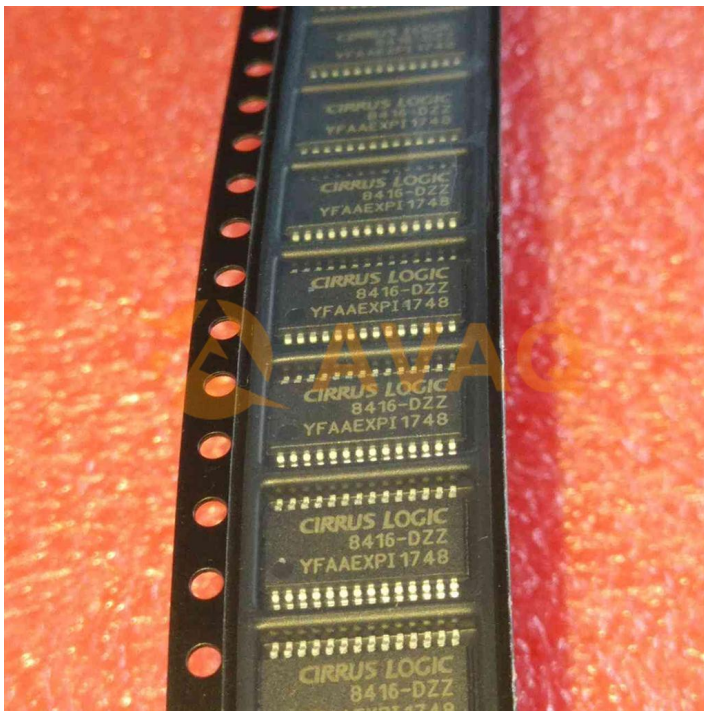
Autodetection of compressed audio input streams

Decodes CD Q subcode

OMCK system clock mode

3.3 V analog supply (VA), 3.3 V digital supply (VD) and 3.3 V to 5 V digital interface supply (VL)

Package: 28-pin SOIC, 28-pin TSSOP, 28-pin QFN; lead-free assembly



## Recommended For You

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**CS8406-CSZ**

Cirrus Logic, Inc  
SOP28

**CS44800-CQZR**

Cirrus Logic, Inc  
LQFP

**CS8416-CZZ**

Cirrus Logic, Inc  
TSSOP28

**CS8416-CSZ**

Cirrus Logic, Inc  
SOP28

**CS8405A-CS**

Cirrus Logic, Inc  
SOP

**CS495313-CVZ**

Cirrus Logic, Inc  
QFP

**CS8406-DZZ**

Cirrus Logic, Inc  
TSSOP28

**CS8420-DSZ**

Cirrus Logic, Inc  
SOP28

**CS8415A-CZZ**

Cirrus Logic, Inc  
TSSOP28

**WMB281ECS/R**

Cirrus Logic, Inc  
W-CSP138

**CS3318-CQZ**

Cirrus Logic, Inc  
LQFP48

**CS44600-CQZ**

Cirrus Logic, Inc  
QFP

**CS496122-CQZ**

Cirrus Logic, Inc  
QFP

**CS49DV8C-CVZR**

Cirrus Logic, Inc  
LQFP

**CS48DV2A-DQZ**

Cirrus Logic, Inc  
LQFP