
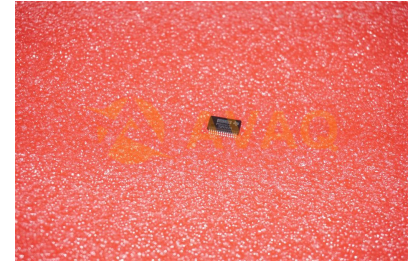


General Purpose Audio Codec 1ADC / 1DAC Ch 28-Pin SSOP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SSOP
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The PCM2904/2906 is Texas Instruments single-chip USB stereo audio codec with USB-compliant full-speed protocol controller and S/PDIF (PCM2906 only). The USB protocol controller works with no software code, but the USB descriptors can be modified in some areas (for example, vendor ID/product ID). The PCM2904/2906 employs SpAct architecture, TI's unique system that recovers the audio clock from USB packet data. On-chip analog PLLs with SpAct enable playback and record with low clock jitter and with independent playback and record sampling rates.

Key Features

PCM2904: Without S/PDIF

PCM2906: With S/PDIF

On-Chip USB Interface:

With Full-Speed Transceivers

Fully Compliant With USB 1.1 Specification

Certified by USB-IF

Partially Programmable Descriptors(1)

USB Adaptive Mode for Playback

USB Asynchronous Mode for Record

Bus Powered

16-Bit Delta-Sigma ADC and DAC

Sampling Rate:

DAC: 32, 44.1, 48 kHz

ADC: 8, 11.025, 16, 22.05, 32, 44.1, 48 kHz

On-Chip Clock Generator With Single 12-MHz Clock Source

Single Power Supply: 5 V Typical (VBUS)

Stereo ADC

Analog Performance at VBUS = 5 V

THD+N = 0.01%

SNR = 89 dB

Dynamic Range = 89 dB

Decimation Digital Filter

Pass-Band Ripple = ± 0.05 dB

Stop-Band Attenuation = -65 dB

Single-Ended Voltage Input

Antialiasing Filter Included

Digital LCF Included

Stereo DAC:

Analog Performance at VBUS = 5 V

THD+N = 0.005%

SNR = 96 dB

Dynamic Range = 93 dB

Oversampling Digital Filter

Pass-Band Ripple = ± 0.1 dB

Stop-Band Attenuation = -43 dB

Single-Ended Voltage Output

Analog LPF Included

Multifunctions:

Human Interface Device (HID) Volume \pm Control and Mute Control

Suspend Flag

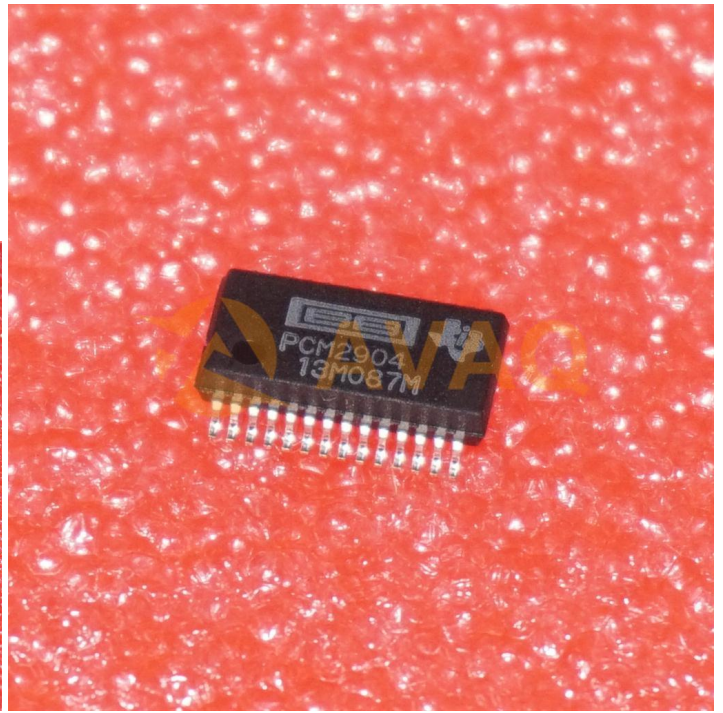
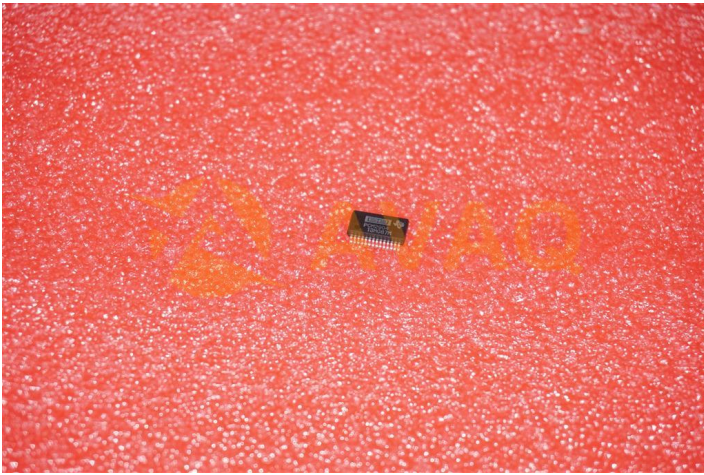
Package: 28-Pin SSOP

USB Audio Speaker

USB Headset

USB Monitor

USB Audio Interface Box



Recommended For You

PCA9534APWR

Texas Instruments, Inc

TSSOP16

PCA9557PW

Texas Instruments, Inc

TSSOP16

PCA9538PWR

Texas Instruments, Inc

TSSOP16

PCA9515AD

Texas Instruments, Inc

SOP8

PCMB000E

Texas Instruments, Inc

SSOP28

PCF8574N

Texas Instruments, Inc

DIP16

PCA9515BDGKR

Texas Instruments, Inc

MSOP8

PCMB500E

Texas Instruments, Inc

SSOP24

PCF8574RGIR

Texas Instruments, Inc

QFN16

PCI2050PDV

Texas Instruments, Inc

QFP208

PCA9539DW

Texas Instruments, Inc

SOIC(DW)

PCI1510GGU

Texas Instruments, Inc

BGA144

PCM2900CDBR

Texas Instruments, Inc

SSOP28

PCF8575PWR

Texas Instruments, Inc

TSSOP24

PCI2050BPDV

Texas Instruments, Inc

QFP208