


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



Images are for reference only

[Inquiry](#)

Manufacturer:	Texas Instruments, Inc
Package/Case:	SSOP28
Product Type:	Communication & Networking ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

General Description

The PCM2900C/2902C are Texas Instruments' single-chip, USB, stereo audio codecs with a USB-compliant full-speed protocol controller and S/PDIF (PCM2902C only). The USB protocol controller requires no software code. The PCM2900C/2902C employ SpAct architecture, TI's unique system that recovers the audio clock from USB packet data. On-chip analog PLLs with SpAct architecture enable playback and record with low clock jitter as well as independent playback and record sampling rates.

Key Features

PCM2900C: Without S/PDIF

PCM2902C: With S/PDIF

On-Chip USB Interface:
With Full-Speed Transceivers

Fully Compliant with USB 2.0 Specification

Certified by USB-IF

Partially Programmable Descriptors

USB Adaptive Mode for Playback

USB Asynchronous Mode for Record

Bus Powered

16-Bit Delta-Sigma ADC and DAC

Sampling Rate:
DAC: 32 kHz, 44.1 kHz, 48 kHz

ADC: 8 kHz, 11.025 kHz, 16 kHz, 22.05 kHz, 32 kHz, 44.1 kHz, 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:
Passband Ripple = ± 0.05 dB

Stop Band Attenuation = -65 dB

Single-Ended Voltage Input

Antialiasing Filter Included

Digital HPF Included

Stereo DAC:
Analog Performance at VBUS = 5 V:
THD+N = 0.005%

SNR = 96 dB

Dynamic Range = 93 dB

Oversampling Digital Filter:
Passband Ripple = ± 0.1 dB

Stop Band Attenuation = -43 dB

Single-Ended Voltage Output

Analog LPF Included

Multifunctions:
Human Interface Device (HID) Function:
Volume and Mute Controls

Suspend Flag Function

28-Pin SSOP Package



Recommended For You

PCA9534APWR

Texas Instruments, Inc

TSSOP16

PCA9557PW

Texas Instruments, Inc

TSSOP16

PCA9538PWR

Texas Instruments, Inc

TSSOP16

PCA9515AD

Texas Instruments, Inc

SOP8

PCM2904DB

Texas Instruments, Inc

SSOP

PCMB000E

Texas Instruments, Inc

SSOP28

PCF8574N

Texas Instruments, Inc

DIP16

PCA9515BDGKR

Texas Instruments, Inc

MSOP8

PCMB500E

Texas Instruments, Inc

SSOP24

PCF8574RGTR

Texas Instruments, Inc

QFN16

PCI2050PDV

Texas Instruments, Inc

QFP208

PCA9539DW

Texas Instruments, Inc

SOIC(DW)

PCI1510GGU

Texas Instruments, Inc

BGA144

PCF8575PWR

Texas Instruments, Inc

TSSOP24

PCI2050BPDV

Texas Instruments, Inc

QFP208