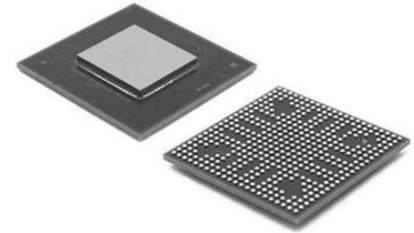


Audio Codec 2ADC / 2DAC 24-Bit 32-Pin LFCSP EP T/R - Tape and Reel (Alt: ADAU1761BCPZ-R7)

Manufacturers	Analog Devices, Inc
Package/Case	LFCSP-32
Product Type	Audio DSPs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADAU1761BCPZ-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADAU1761 is a low power, stereo audio codec with integrated digital audio processing that supports stereo 48 kHz record and playback at 14 mW from a 1.8 V analog supply. The stereo audio ADCs and DACs support sample rates from 8 kHz to 96 kHz as well as a digital volume control.

The SigmaDSP® core features 28-bit processing (56-bit double precision). The processor allows system designers to compensate for the real-world limitations of microphones, speakers, amplifiers, and listening environments, resulting in a dramatic improvement in the perceived audio quality through equalization, multiband compression, limiting, and third-party branded algorithms.

The SigmaStudio™ graphical development tool is used to program the ADAU1761. This software includes audio processing blocks such as filters, dynamics processors, mixers, and low level DSP functions for fast development of custom signal flows.

The record path includes an integrated microphone bias circuit and six inputs. The inputs can be mixed and muxed before the ADC, or they can be configured to bypass the ADC. The ADAU1761 includes a stereo digital microphone input.

The ADAU1761 includes five high power output drivers (two differential and three single-ended), supporting stereo head-phones, an earpiece, or other output transducer. AC-coupled or capless configurations are supported. Individual fine level controls are supported on all analog outputs. The output mixer stage allows for flexible routing of audio.

Features

SigmaDSP 28-/56-bit 50 MIPS digital audio processor

Fully programmable with SigmaStudio graphical tool

24-bit stereo audio ADC and DAC: >98 dB SNR

Sampling rates from 8 kHz to 96 kHz

Low power: 7 mW record, 7 mW playback, 48 kHz at 1.8 V

6 analog input pins, configurable for single-ended or differential inputs

Flexible analog input/output mixers

Stereo digital microphone input

Analog outputs: 2 differential stereo, 2 single-ended stereo, 1 mono headphone output driver

PLL supporting input clocks from 8 MHz to 27 MHz

Analog automatic level control (ALC)

Microphone bias reference voltage

Analog and digital I/O: 1.8 V to 3.65 V

I2C and SPI control interfaces

Digital audio serial data I/O: stereo and time-division multiplexing (TDM) modes

Software-controllable clickless mute

Software power-down

GPIO pins for digital controls and outputs

32-lead, 5 mm × 5 mm LFCSP

Application

Smartphones/multimedia phones

Digital still cameras/digital video cameras

Portable media players/portable audio players

Phone accessories products

Related Products



[ADV7181CBSTZ](#)
Analog Devices, Inc
LQFP-64



[AD8170AR](#)
Analog Devices, Inc
SOP8



[AD724JR](#)
Analog Devices, Inc
SOIC-16



[ADV7393BCPZ](#)
Analog Devices, Inc
LFCSP-VQ-40



[ADV7391WBCPZ](#)

Analog Devices, Inc
LFSCP-3



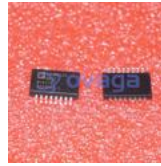
[ADV7390BCPZ](#)

Analog Devices, Inc
QFN32



[ADV7341BSTZ](#)

Analog Devices, Inc
LQFP-64



[ADUM4160BRIZ](#)

Analog Devices, Inc
SOIC-16