


DAC 2-CH Segment 32-bit 20-Pin TSSOP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	TSSOP20
Product Type:	Data Conversion ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The PCM510xA devices are a family of monolithic CMOS-integrated circuits that include a stereo digital-to-analog converter and additional support circuitry in a small TSSOP package. The PCM510xA devices use the latest generation of TIs advanced segment-DAC architecture to achieve excellent dynamic performance and improved tolerance to clock jitter.

Using Directpath™ charge-pump technology, the PCM510xA devices provide 2.1-VRMS ground centered outputs, allowing designers to eliminate DC blocking capacitors on the output, as well as external muting circuits traditionally associated with single-supply line drivers.

The integrated line driver surpasses all other charge-pump based line drivers by supporting loads down to 1 kΩ per pin.

The integrated PLL on the device removes the requirement for a system clock (commonly known as master clock), allowing a 3-wire I²S connection and reducing system EMI.

Intelligent clock error and PowerSense undervoltage protection utilizes a two-level mute system for pop-free performance.

Compared with many conventional switched capacitor DAC architectures, the PCM510xA family offers up to 20 dB lower out-of-band noise, reducing EMI and aliasing in downstream amplifiers/ADCs, measured from the traditional 100-kHz OBN measurements to 3 MHz).

Key Features

Ultralow out-of-band noise

No DC blocking capacitors required

Automatic power-save mode when LRCK and BCK are deactivated

Simple configuration using hardware pins

Green product and no Sb/Br

Application

Consumer Electronics, Sensing & Instrumentation, Automotive, Imaging, Video & Vision

Recommended For You

PCMI798DB

Texas Instruments, Inc
SSOP28

PCMI681PWPR

Texas Instruments, Inc
HTSSOP28

PCMI863DBT

Texas Instruments, Inc
TSSOP30

PCMI789PW

Texas Instruments, Inc
TSSOP24

PCMI789PWR

Texas Instruments, Inc
TSSOP24

PCMI864DBTR

Texas Instruments, Inc
TSSOP30

PCMI793DB

Texas Instruments, Inc
SSOP

PCM56U

Texas Instruments, Inc
SOP16

PCM2704DBR

Texas Instruments, Inc
SSOP28

PCMI725U

Texas Instruments, Inc
SOP14

PCM5100APWR

Texas Instruments, Inc
TSSOP20

PCM9211PTR

Texas Instruments, Inc
LQFP48

PCMI808PW

Texas Instruments, Inc
TSSOP14

PCMI808PWR

Texas Instruments, Inc
TSSOP14

PCMI808QPWRQ1

Texas Instruments, Inc
TSSOP14