


Sample Rate Converter 28-Pin SSOP T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	SSOP28
Product Type:	Discrete Semiconductor Modules
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The SRC4190 device is an asynchronous sample rate converter designed for professional and broadcast audio applications. The SRC4190 combines a wide input-to-output sampling ratio with outstanding dynamic range and low distortion. Input and output serial ports support standard audio formats, as well as a Time Division Multiplexed (TDM) mode. Flexible audio interfaces allow the SRC4190 to connect to a wide range of audio data converters, digital audio receivers and transmitters, and digital signal processors.

The SRC4190 is a standalone pin-programmed device, with control pins for mode, data format, mute, bypass, and low group delay functions.

The SRC4190 may be operated from a single 3.3-V power supply. A separate digital I/O supply (VIO) operates with a 1.65-V to 3.6-V supply, allowing greater flexibility when interfacing to current and future generation signal processors and logic devices. The SRC4190 is available in a 28-pin SSOP package.

Key Features

Automatic Sensing of the Input-to-Output Sampling Ratio

Wide Input-to-Output Sampling Range: 16:1 to 1:16

Supports Input and Output Sampling Rates up to 212 kHz

Dynamic Range: 128 dB (–60-dB fS Input, BW = 20 Hz to fS / 2, A-Weighted)

THD+N: –125 dB (0-dB fS Input, BW = 20 Hz to fS / 2)

Attenuates Sampling and Reference Clock Jitter

High-Performance, Linear Phase Digital Filtering

Flexible Audio Serial Ports:

Master or Slave Mode Operation Supports I2S, Left Justified, Right Justified, and TDM Data Formats

Supports 16-, 18-, 20-, or 24-Bit Audio Data, TDM Mode Allows Daisy Chaining of up to Eight Devices

Supports 24-, 20-, 18-, or 16-Bit Input and Output

All Output Data is Dithered from the Internal 28-Bit Data Path

Low Group Delay Option for Interpolation Filter

Soft Mute Function

Bypass Mode

Power-Down Mode

Operates from a Single 3.3-V Power Supply

Small 28-Pin SSOP Package

Pin Compatible With the SRC4192, AD1895, and AD1896 U.S. Patent No. 7,262,716 See for details.

Recommended For You

SRC4382IPFBR

Texas Instruments, Inc

QFP

SRC4194IPAG

Texas Instruments, Inc

TQFP-64

SRC4382IPFB

Texas Instruments, Inc

TQFP-48

SRC4192IDB

Texas Instruments, Inc

SSOP28

SRC4392IPFB

Texas Instruments, Inc

48-TQFP

SRC4392IPFBR

Texas Instruments, Inc

TQFP-48

SRC4190IDBRQ1

Texas Instruments, Inc

SSOP28

SRC4184IPAGT

Texas Instruments, Inc

64-TQFP

SRC4392IPFBRG4

Texas Instruments, Inc

TQFP48

SRC4192IDBR

Texas Instruments, Inc
SSOP28

SRC4184IPAGR

Texas Instruments, Inc
TQFP-64

SRC4194IPAGR

Texas Instruments, Inc
TQFP-64

SRC4184IPAG

Texas Instruments, Inc
QFP

SRC4194IPAGT

Texas Instruments, Inc
64-TQFP

SRC4192IDBG4

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28-SSOP