


## Sample Rate Converter 192ksps 24bit Automotive 28-Pin SSOP Tube



Images are for reference only

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	SSOP28
<b>Product Type:</b>	Discrete Semiconductor Modules
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

[Inquiry](#)

### General Description

The AD1896 is a sample rate converter; it is second generation and 24-bit, high-performance, single-chip, and asynchronous. Based upon Analog Devices experience with its first asynchronous sample rate converter, the AD1890, the AD1896 offers improved performance and additional features. This improved performance includes a minimum THD+N of 117dB for all input frequencies and sample rates, 142 dB dynamic range, 192 kHz sampling frequencies for both input and output sample rates, improved jitter rejection and 1:8 up-sampling and 7.75:1 down-sampling ratios. Additional features include more serial formats, a TDM mode to cascade multiple AD1896, a bypass mode, better interfacing to digital signal processors and a matched phase mode. Please look at: "Why do I need a 140 dB DNR".

### Key Features

- Automatically Senses Sample Frequencies
- No Programming Required
- Attenuates Sample Clock Jitter
- 3.3 V–5 V Input and 3.3 V Core Supply Voltages
- Accepts 16-/18-/20-/24-Bit Data
- Up to 192 kHz Sample Rate
- Input/Output Sample Ratios from 7.75:1 to 1:8
- Bypass Mode
- Multiple AD1896 TDM Daisy-Chain Mode
- Multiple AD1896 Matched-Phase Mode
- 142 dB Signal-to-Noise and Dynamic Range (A-Weighted, 20 Hz–20 kHz BW)
- Up to –133 dB THD + N

### Application

- Home Theater Systems
- Studio Digital Mixers
- Automotive Audio Systems
- DVD
- Set-Top Boxes
- Digital Audio Effects Processors
- Studio-to-Transmitter Links
- Digital Audio Broadcast Equipment
- Digital Tape Varispeed Applications

### Recommended For You

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**ADAU1701JSTZ**

Analog Devices, Inc  
QFP48

**AD1890JP**

Analog Devices, Inc  
PLCC

**AD1974WBSTZ**

Analog Devices, Inc  
LQFP-48

**AD1940YSTZ**

Analog Devices, Inc  
QFP

**AD1895AYRSZ**

Analog Devices, Inc  
SSOP28

**AD2428WCCSZ-RL**

Analog Devices, Inc  
LFCSP32

**AD1866RZ**

Analog Devices, Inc  
SOP16

**ADAU7002ACBZ-R7**

Analog Devices, Inc  
WLCSP8

**AD1955ARSZ**

Analog Devices, Inc  
SSOP28

**ADAU1701JSTZ-RL**

Analog Devices, Inc  
LQFP48

**AD1852JRSZ**

Analog Devices, Inc  
SSOP28

**ADAU1401AWBSTZ**

Analog Devices, Inc  
LQFP48

**ADAU1962AWBSTZ**

Analog Devices, Inc  
LQFP-80

**ADAU1966WBSTZ**

Analog Devices, Inc  
QFP80

**AD1974YSTZ**

Analog Devices, Inc  
QFP