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ADAV4201 Audio Processor for Advanced TV

Data Sheets | **Application Notes** html(19k) | Evaluation Boards | Price, Packaging, and Availability

Product Description

The ADAV4101/ADAV4201 are part of a family of high performance analog and digital input/output audio processors. The audio processor, by default, loads a dedicated audio flow that incorporates...More

- **The ADAV4201 is currently available to Analog Devices' OEM and ODM customers and partners with order requirements of 10k/year or more. Further information on meeting these requirements may be requested by contacting the Audio/Video Products Group.**
- **Audio signal processor designers who purchased the ADAV4201 also bought: ADAU1513 - Class-D Audio Power Stage**
- **Additional product choices for Advanced TV applications are available on the Advantiv™ site.**

Advantiv Advanced Television Solutions by Analog Devices

Specifications

Instructions/Cycles	2560
DAC DNR (dB)	95dB
DAC THD+N @ 1 kHz (-3dB)	85dB
Digital I/O Channels	8/2
Product Description	Audio Processor for Advanced TV

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Functional Block Diagram

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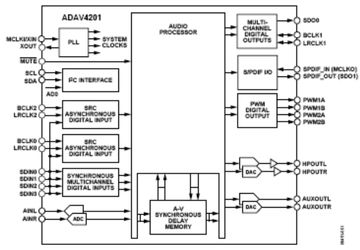

Symbols and Footprints

Features

- Fully configurable 28 bit audio processor - loads comprehensive TV audio flow on reset.
- Also supports SigmaStudio™ with Analog Devices Inc and third party branded algorithms for custom design
- Adjustable digital delay, up to 200 ms stereo delay
- High performance 24-bit ADC and DACs with 95 dB DNR performance
- Headphone output with integrated amplifiers
- Choice of high performance pulse-width modulation (PWM) digital outputs (ADAV4201) or DAC analog voltage outputs (ADAV4101)
- 4 Stereo Digital Audio inputs (I^2S) support synchronous or asynchronous inputs (2 SRCs with sample rates 5kHz to 50 kHz)
- 1 stereo synchronous digital I^2S output
- S/PDIF output with S/PDIF input multiplexer capability
- Fast I^2C® control
- Operates from 3.3V and 1.8V supplies (with on-chip regulator to derive 1.8V from a single 3.3V supply)

Price, Packaging, and Availability

Print Table

ADAV4201 Model Options

Model	Status	Package	Pins	Temp Range	Price* (1000 pcs.)	Available	RoHS Compliant	Samples Cart	Purchase Cart
ADAV4201BSTZ	**Prodn**	80 ld LQFP (14x14mm)	**80**	**TBD**	**$7.42**	**-**	**Y** Material Declaration	Contact ADI	Add to Cart

The USA list pricing shown is for BUDGETARY USE ONLY, shown in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

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Selection Tables

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Audio Signal Processors

Part #	Instructions/ Cycle	DNR	THD+N	Digital I/O channels	Analog I/O channels (ADCs/DACs)	Product Description
AD1940	1536	-	-	16/16	0/0	SigmaDSP Multichannel 28-/56-Bit Audio Processor
AD1941	1536	-	-	16/16	0/0	SigmaDSP Multichannel 28-/56-Bit Audio Processor
AD1953	512	112	-100	4/6	0/3	SigmaDSP 3 Ch, 26-/48-Bit Processing D/A
AD1954	512	112	-100	4/2	0/3	SigmaDSP 3 Ch, 26-/48-Bit Processing D/A
AD1970	-	87	87	2/0	2/1	Complete MTS (BTSC) TV Stereo Encoder
ADAU1401	1024	ADC: 100 DAC: 104	ADC: -83 DAC: -90	8/8	2/4	28/56-Bit Automotive Audio Processor with Two ADCs and Four DACs
ADAU1701	1024	ADC: 100 DAC: 104	ADC: -83 DAC: -90	8/8	2/4	SigmaDSP 28/56-Bit Audio Processor with 2 ADC/4 DAC
ADAU1702	512	ADC: 100 DAC: 104	ADC: -83 DAC: -90	8/8	2/4	SigmaDSP 28/56-Bit Audio Processor with 2 ADC/4 DAC

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* The pricing listed here is provided only for budgetary purposes as recommended list price in U.S. Dollars in the United States ex factor per unit for the stated volume. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

Audio Signal Processors for TV Audio

Part #	Instructions/ Cycle	Analog Input ADC Channels	Analog Output DAC Channels	DNR	THD+N	Digital Output PWM Channels (Diff)	Digital Audio I/O channels	Product Description
ADAV400	3072	2	8	95	-90 ADC	-	8/8	SigmaDSP Multichannel Audio Processor with Embedded 2ADC/8DAC Codec
ADAV4101	2560	2	6	95	-90 ADC -85 DAC	-	8/2	Audio Processor for Advanced TV
ADAV4201	2560	2	4	95	-90 ADC -85 DAC	2	8/2	Audio Processor for Advanced TV
ADAV4312	2560	4	11	95	-90 ADC -85 DAC	-	8/2	Audio Processor for Advanced TV with Sound IF Demodulator and Stereo Decoder
ADAV4322	2560	4	11	95	-90 ADC -85 DAC	-	8/2	Audio Processor for Advanced TV with Sound IF Demodulator and Stereo Decoder
ADAV4412	2560	4	7	95	-90 ADC -85 DAC	4	8/2	Audio Processor for Advanced TV with Sound IF Demodulator and Stereo Decoder
ADAV4422	2560	4	7	95	-90 ADC -85 DAC	4	8/2	Audio Processor for Advanced TV with Sound IF Demodulator and Stereo Decoder

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New Audio Signal Processors
ADAV4622 - Audio Processor for Advanced TV with Sound IF Demodulator and Stereo Decoder

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