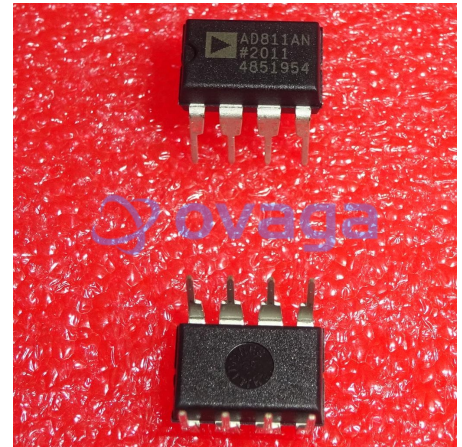


VIDEO OPERATIONAL AMPLIFIER, SINGLE, 140MHZ, No. of Amplifiers:1, Gain Bandwidth:140MHz, Slew Rate:2500V/ s, Operating Temperature Min:-40 C, Operating Temperature Max:85 C, Output Current:100mA

Manufacturers	Analog Devices, Inc
Package/Case	DIP-8
Product Type	Linear - Amplifiers - Video Amps and Modules
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD811ANZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8112 is a low cost, fully buffered crosspoint switch matrix that operates on ± 12 V for audio applications and ± 5 V for video applications. It offers a -3 dB signal bandwidth greater than 60 MHz and channel switch times of less than 60 ns with 0.1% settling for use in both analog and digital audio. The AD8112 operated at 20 kHz has a crosstalk performance of -83 dB and isolation of 90 dB. In addition, ground/power pins surround all inputs and outputs to provide extra shielding for operation in the most demanding audio routing applications. With a differential gain and differential phase better than 0.1% and 0.1° , respectively, and a 0.1 dB flatness output of up to 10 MHz, the AD8112 is suitable for many video applications. The AD8112 includes eight independent output buffers that can be placed into a disabled state for paralleling crosspoint outputs so that off channel loading is minimized. The AD8112 has a gain of +2. It operates on voltage supplies of ± 5 V or ± 12 V while consuming only 34 mA or 31 mA of current, respectively. The channel switching is performed via a serial digital control (which can accommodate the daisy chaining of several devices) or via a parallel control, allowing updating of an individual output without reprogramming the entire array. The AD8112 is packaged in a 100-lead LQFP and is available over the commercial temperature range of 0°C to 70°C . Applications

CCTV surveillance/DVR

Analog/digital audio routers

Video routers (NTSC, PAL, S-Video, SECAM)

Multimedia systems

Video conferencing

Features

Low cost, 16×8 , high speed, nonblocking switch array Pin-compatible 16×16 version available

Serial or parallel programming of switch array

Serial data out allows daisy chaining control of multiple 16×8 arrays to create larger switch arrays

Output disable allows connection of multiple devices without loading the output bus

Complete solution Buffered inputs 8 output amplifiers Operates on ± 5 V or ± 12 V supplies Low supply current of 54 mA

Excellent audio performance = 600Ω)

Excellent video performance >

0.1 dB gain flatness of 10 MHz 0.1% differential gain error = $1 \text{ k}\Omega$)

Excellent ac performance -3 dB bandwidth 60 MHz

Low all-hostile crosstalk of -83 dB at 20 kHz

Reset pin allows disabling of all outputs (connected to a capacitor to ground provides power-on reset capability)

100-lead LQFP ($14 \text{ mm} \times 14 \text{ mm}$)

Application

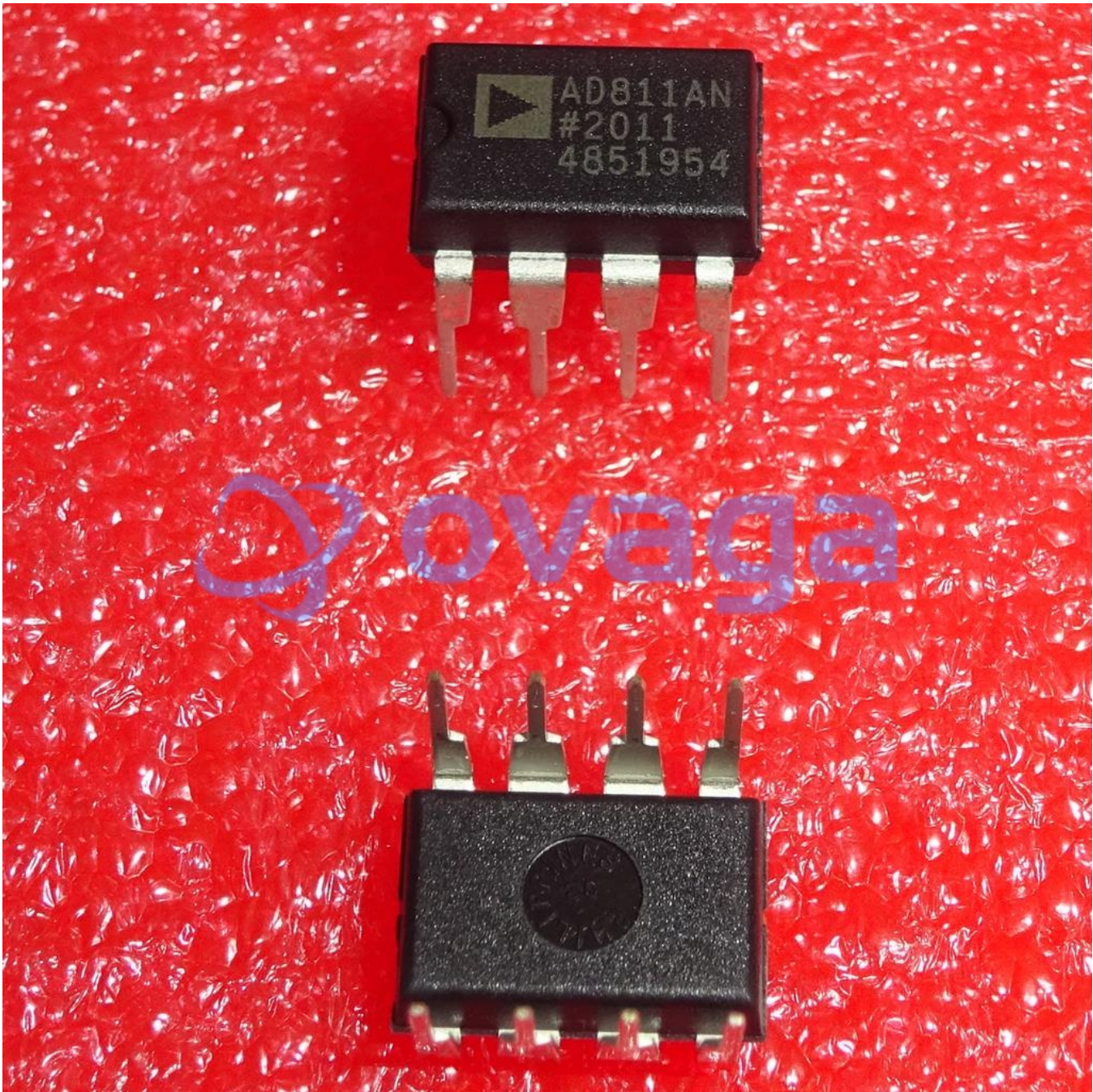
CCTV surveillance/DVR

Analog/digital audio routers

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Related Products



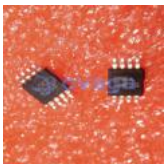
[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

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MSOP-8



[ADA4084-2ARMZ](#)

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