

## Analog Audio/Video 60MHz 16 x 16 100-Pin LQFP Tray



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** QFP

**Product Type:** Switches

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The AD8113 is a fully buffered crosspoint switch matrix that operates on  $\pm 12V$  for Audio applications and  $\pm 5V$  for Video applications. It offers a  $-3dB$  signal bandwidth greater than 60MHz and channel switch times of less than 60ns with 0.1% settling for use in both analog and digital audio. The AD8113 operated at 20kHz has crosstalk performance of  $-83dB$  and isolation of 90dB. In addition, ground/power pins surround all inputs and outputs to provide extra shielding for operation in the most demanding audio routing applications. The differential gain and differential phase of better than 0.1% and  $0.1^\circ$ , respectively, along with 0.1dB flatness out to 10MHz make the AD8113 suitable for many video applications.

The AD8113 includes 16 independent output buffers that can be placed into a disabled state for paralleling crosspoint outputs so that off channel loading is minimized. The AD8113 has a gain of +2. It operates on voltage supplies of  $\pm 5V$  or  $\pm 12V$  while consuming only 34mA or 31mA of current, respectively. The channel switching is performed via a serial digital control (which can accommodate daisy-chaining of several devices) or via a parallel control, allowing updating of an individual output without reprogramming the entire array.

The AD8113 is packaged in a 100-lead LQFP and is available over the commercial temperature range of  $0^\circ C$  to  $70^\circ C$ .

### Key Features

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

### Recommended For You

#### AD1803JRU

Analog Devices, Inc

TSSOP24

#### AD1847JP

Analog Devices, Inc

PLCC

#### AD8109ASTZ

Analog Devices, Inc

QFP

#### AD8115ASTZ

Analog Devices, Inc

QFP

#### AD1980JST-REEL

Analog Devices, Inc

QFP48

#### AD1836AAS

Analog Devices, Inc

QFP52

**AD1843JS**

Analog Devices, Inc

QFP

**AD1888JCPZ-REEL**

Analog Devices, Inc

LFCSP-48

**AD8116JSTZ**

Analog Devices, Inc

QFP128

**ADV601LCJST**

Analog Devices, Inc

QFP

**ADV611JST**

Analog Devices, Inc

QFP

**ADN4600ACPZ**

Analog Devices, Inc

QFN

**AD8152JBPZ**

Analog Devices, Inc

BGA

**ADN4605ABPZ**

Analog Devices, Inc

BGA

**ADN4612ACPZ**

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LFCSP-88