AD8115ASTZ

Analog Video 200MHz 16 x 16 100-Pin LQFP Tray

Manufacturer:	Analog Devices, Inc
Package/Case:	QFP
Product Type:	Switches
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

Key Features

16 × 16 high speed nonblocking switch arrays: G = 2

Serial or parallel programming of switch array

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

High impedance output disable allows connection of

multiple devices without loading the output bus

For smaller arrays see the AD8108/AD8109 (8 × 8) or AD8110/AD8111 (16 × 8) switch arrays

Complete solution

Buffered inputs

Programmable high impedance outputs

16 output amplifiers (G = 2)

Drives 150 ? loads

Application

The differential gain and differential phase of better than 0.05%and 0.05°, respectively, along with a 0.1 dB flatness out to 25 MHzwhile driving a 75 ? back-terminated load, make the AD8114/AD8115 ideal for all types of signal switching.

The AD8114/AD8115 include 16 independent output buffersthat can be placed into a high impedance state for parallelingcrosspoint outputs so that off channels do not load the output bus.The AD8114 has a gain of 1, while the AD8115 offers a gain of 2.They operate on voltage supplies of ±5 V while consuming only70 mA of idle current. The channel switching is performed via aserial digital control (which can accommodate daisy-chaining ofseveral devices) or via a parallel control, allowing updating of anindividual output without reprogramming the entire array.

The AD8114/AD8115 is packaged in a 100-lead LQFP and isavailable over the extended industrial temperature range of?40°C to +85°C.

Applications

Routing of high speed signals, including

Excellent video performance

25 MHz, 0.1 dB gain flatness

0.05%/0.05° differential gain/differential phase error (R

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Excellent ac performance

Slew rate: 375 V/µs

Low power of 700 mW (2.75 mW per point)

Low all hostile crosstalk of ?70 dB at 5 MHz

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

100-lead LQFP (14 mm × 14 mm)

Recommended For You

AD1803JRU	AD1847JP	AD8109ASTZ
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
TSSOP24	PLCC	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

AD8113JSTZ

Analog Devices, Inc

QFP

ADN4612ACPZ

Analog Devices, Inc

LFCSP-88