


Analog Multiplexer Single 4:1 80-Pin LQFP Tray

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



Images are for reference only

[Inquiry](#)

General Description

The ADV3002 is a complete HDMI²/DVI link switch featuring equalized transition minimized differential signaling (TMDS) inputs, ideal for systems with long cable runs. The ADV3002 includes bidirectional buffering for the DDC bus and CEC line, with integrated pull-up resistors for the CEC line. Additionally, the ADV3002 includes an EDID replication function that enables one EDID EEPROM to be shared for all four HDMI ports. The ADV3002 is provided in a space-saving, 80-lead LQFP surface-mount Pb-free plastic package and is specified to operate over the 0°C to 85°C temperature range. **PRODUCT HIGHLIGHTS**

- Input cable equalizer enables use of long cables at the input. For a 24 AWG cable, the ADV3002 compensates for more than 20m at data rates up to 3 Gbps.
- Auxiliary multiplexer isolates and buffers the DDC bus and the CEC line, increasing total system capacitance limit.
- EDID replication eliminates the need for multiple EDID EEPROMs. EDID can be loaded from a single external EEPROM or from a system microcontroller.
- 5 V power combiner powers the EDID replicator and CEC buffer when local system power is off.
- Integrated hot plug detect pulse low on channel switch with programmable pulse width or direct manual control.

Key Features

4 inputs, 1 output HDMI/DVI links

HDMI 1.3a receive and transmit compliant

4 TMDS channels per link

Bidirectional DDC buffers (SDA and SCL)

EDID replication reduces component count, while enabling simultaneous access to all HDMI sources

5 V combiner provides power to EDID replicator and CEC buffer when local system power is off

Bidirectional buffered CEC line with integrated pull-up resistors (26 k Ω)

Hot plug detect pulse low on channel switch with programmable pulse width or direct manual control

Standards compatible: HDMI, DVI, HDCP, I

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C

80-pin 14 mm \times 14 mm LQFP RoHS-compliant package

Application

Advanced television (HDTV) sets

Projectors

A/V receivers

Set-top boxes

Recommended For You

AD8194ACPZ

Analog Devices, Inc

QFN32

AD8122ACPZ

Analog Devices, Inc

LFCSP40

AD8195ACPZ-R7

Analog Devices, Inc

QFN40

ADN8102ACPZ-R7

Analog Devices, Inc

LFCSP-64

AD8192ACPZ

Analog Devices, Inc

QFN

ADN8102ACPZ

Analog Devices, Inc

QFN

ADV3003ACPZ-R7

Analog Devices, Inc

LFCSP40

MAX3801UTG+

Analog Devices, Inc

QFN

MAX3802UTK+D

Analog Devices, Inc

QFN

MAX3980UTH+

Analog Devices, Inc

QFN44

HMC6545LP5ETR

Analog Devices, Inc

QFN

HMC6545LP5E

Analog Devices, Inc

LFCSP-32