AVAQ

HDMI Transceiver 1TX 1RX 144-Pin LQFP Tray

Manufacturer:	Analog Devices, Inc
Package/Case:	LQFP144
Product Type:	Discrete Semiconductor Modules
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The ADV7623 incorporates Xpressview™ fast switching on all input HDMI ports. Using the Analog Devices hardware-based HDCP engine that minimizes software overhead, Xpressview allows fast switching between any HDMI input ports in less than 1 second.

The ADV7623 supports all mandatory 3D TV formats in addition to all HDTV formats up to 1080p, 12-bit Deep Color. The ADV7623 also integrates an HDMI v1.4 CEC controller that supports the capability discovery and control (CDC) feature.

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The ADV7623 offers a dedicated flexible audio output port and a dedicated audio input port to allow easy extraction and insertion of audio data into and out of the HDMI stream. All HDMI audio formats, including super audio CD (SACD) via DSD, compressed SACD via DST, and HBR, are supported. The ADV7623 also features an audio return channel (ARC) receiver. ARC simplifies cabling by combining upstream audio capability in a conventional HDMI cable.

Fabricated in an advanced CMOS process, the ADV7623 is provided in a 144-lead, 20 mm × 20 mm, Pb-free LQFP package and is specified over the −20°C to +70°C temperature range.

Key Features

4-input, 1-output HDMI transceiver

HDMI® 1.4 support- Audio Return Channel (ARC)- 3D TV support- Content Type Bits- CEC 1.4-compatible (CEC_CPD and CEC_HPD)

Xpressview fast switching on all HDMI ports

Character- and icon-based on-screen display (OSD)

High-Bandwidth Digital Content Protection (HDCP 1.4)

HDCP repeater support

225 MHz HDMI Rx and Tx support 36-/30-/24-bit Deep Color

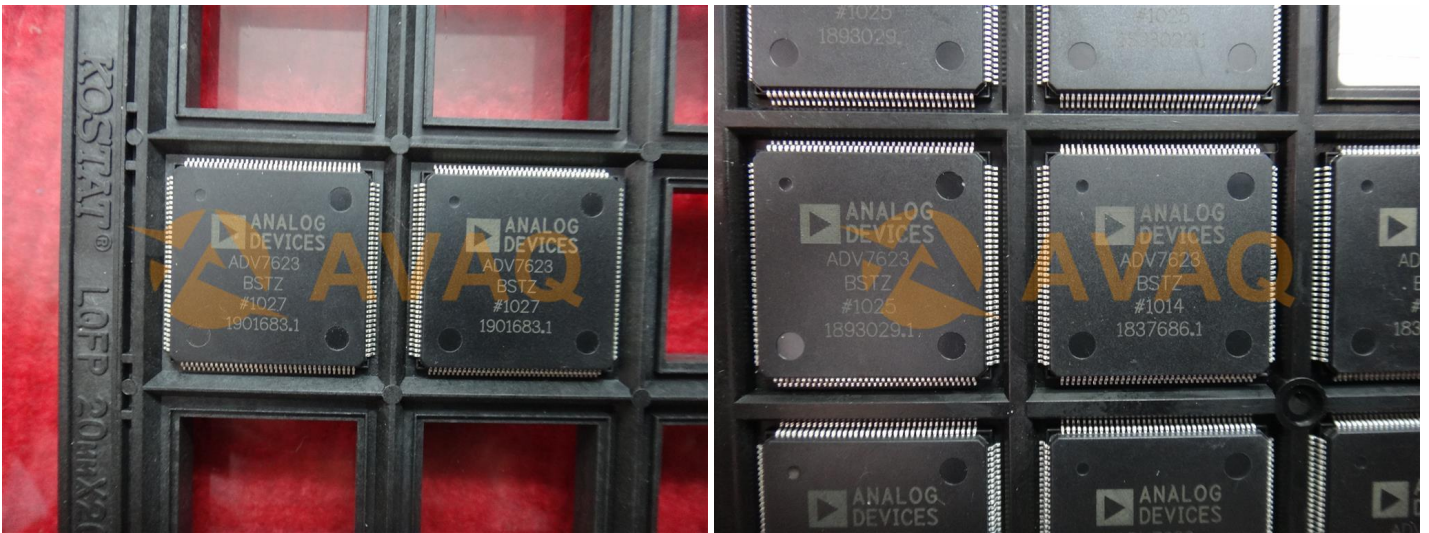Supports DVI RGB graphics up to 1600 × 1200 at 60 Hz

Application

AVRs

HTiB

Sound bar with HDMI repeater support

HBR enabled TVs

Other repeater applications

Recommended For You

ADM3490EARZ	**ADuM3160BRWZ-RL**	**ADM3232EARUZ**
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
SOP-8	SOP16	TSSOP-16
ADuM5211ARSZ	**ADuM1201BRZ-RL7**	**ADuM1410BRWZ**
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
SSOP20	SOP8	SOP16
AD698APZ	**ADM3251EARWZ**	**ADM485ANZ**
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
PLCC28	SOP20	DIP
ADuM6400ARWZ	**ADuM1281BRZ**	**ADUM142E0BRZ**
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
SOP16	SOP8	SOP-16
ADuM1412BRWZ	**ADV7622BSTZ**	**ADAU1328BSTZ**
Analog Devices, Inc	Analog Devices, Inc	Analog Devices, Inc
SOP16	TQFP144	QFP