ovaga

ADV7511KSTZ-P

Video ICs Pb-free Next Gen HDMI Tx

Manufacturers	Analog Devices, Inc
Package/Case	LQFP-100
Product Type	Audio & Video Products ; HDMI/DVI Transmitters
RoHS	Rohs
Lifecycle	
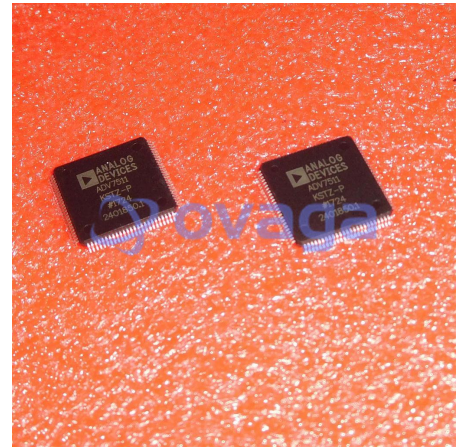
Images are for reference only

Please submit RFQ for ADV7511KSTZ-P or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

The ADV7511 is a 225 MHz High-Definition Multimedia Interface (HDMI®) transmitter, which is ideal for home entertainment products including DVD players/recorders, digital set top boxes, A/V receivers, gaming consoles, and PCs.

The digital video interface contains an HDMI 1.4- and a DVI 1.0-compatible transmitter, and supports all HDTV formats (including 1080p with 12-bit Deep Color). The ADV7511 supports the HDMI 1.4-specific features, HEAC (ARC), and 3D video. In addition to these features, the ADV7511 supports x.v.Color™, high bit rate audio, and programmable AVI InfoFrames. With the inclusion of HDCP, the ADV7511 allows the secure transmission of protected content as specified by the HDCP 1.4 protocol.

The ADV7511 supports both S/PDIF and 8-channel I2S audio. Its high fidelity 8-channel I2S can transmit either stereo or 7.1 surround audio up to 768 kHz. The S/PDIF can carry compressed audio including Dolby® Digital, DTS®, and THX®. Fabricated in an advanced CMOS process, the ADV7511 is provided in a 100-lead LQFP surface-mount plastic package and is specified over the 0°C to +70°C temperature range.

Applications
Home entertainment products

Gaming consoles

PCs

DVD players and recorders

Digital set top boxes

A/V receivers

Ovaga Technologies Limited   Email: sales@ovaga.com

Features

Incorporates HDMI 1.4 featuresAudio return channel (ARC)3D video support

225 MHz supports 12-bit Deep Color operation in all video formats up to 1080p

Supports gamut metadata packet transmission

Integrated CEC buffer/controller—upgraded to HDMI 1.4

Compatible with DVI 1.0 and HDCP 1.4

Video/audio inputs accept logic levels from 1.8 V to 3.3 V

DIGITAL VIDEO

3D video ready

Programmable two-way color space converter

Supports RGB, YCbCr, and DDR

Supports ITU656-based embedded syncs

Automatic input video format timing detection (CEA-861-E)

DIGITAL AUDIO

Audio return channel (ARC) for HDMI 1.4 support

Supports standard S/PDIF for stereo LPCM or compressed audio up to 192 kHz

8-channel uncompressed LPCM I2S audio up to 192 kHz

SPECIAL FEATURES FOR EASY SYSTEM DESIGN

On-chip MPU with I2C master to perform HDCP operations and EDID reading operations

5 V tolerant I2C and HPD I/Os, no extra device needed

No audio master clock needed for supporting S/PDIF and I2S

On-chip MPU reports HDMI events through interrupts and registers

Application
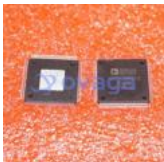
Home entertainment products

Gaming consoles

PCs

DVD players and recorders

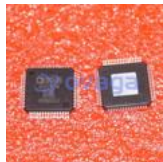Digital set top boxes

A/V receivers

Related Products

[ADV7630KSVZ](#)

Analog Devices, Inc

TQFP128

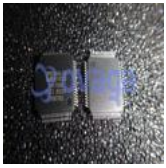[ADV7511WBSWZ](#)

Analog Devices, Inc

LQFP-100

[ADV7842KBCZ-5](#)

Analog Devices, Inc

CSPBGA-256

[ADV7180BSTZ](#)

Analog Devices, Inc

LQFP-64

ADV7181BBSTZ

Analog Devices, Inc

LQFP64

ADV7180BCPZ

Analog Devices, Inc

QFN-40

ADV7403BSTZ-110

Analog Devices, Inc

LQFP-100

ADV7401KSTZ-140

Analog Devices, Inc

LQFP-100