



ADV7510

Deep Color HDMI 1.3 Transmitter with CEC

Features

- High performance HDMI transmitter for DVD player/recorder, home theater, gaming, and PC applications
- 225 MHz supports 12-bit Deep Color operation in all video formats up to 1080p
- HDMI-compliant digital interface fully compatible with HDMI 1.3
- Supports x.v.Color space, gamut metadata packet transmission, and fully programmable AVI InfoFrames
- Supports HDCP 1.3 with the choice of external and internal HDCP keys
- Supports high bitrate compressed audio and DTS features
- Supports S/PDIF and 8 channels of I²S audio for 7.1 surround sound audio up to 768 kHz
- Internal fully programmable color space and timing conversion for 4:4:4 or 4:2:2 video outputs
- Single 1.8 V power supply
- Inputs are 1.5 V to 3.3 V tolerant
- 100-lead LQFP package

Applications

- DVD players and recorders
- Digital set-top boxes
- A/V receivers
- Gaming consoles

The ADV7510 is a 225 MHz High-Definition Multimedia Interface (HDMI™) transmitter, which is perfect for home entertainment products and portable electronics including DVD players/recorders, digital set-top boxes, A/V receivers, gaming consoles, and PCs.

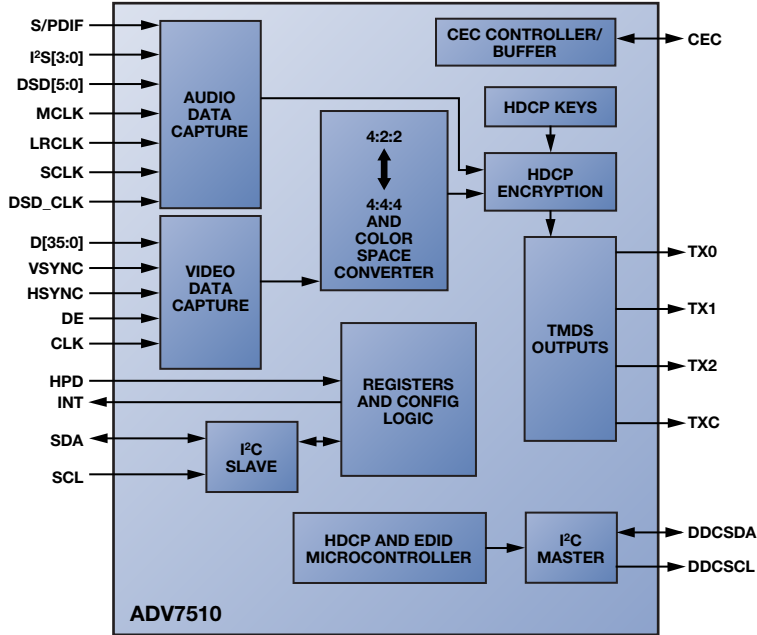
The digital video interface contains an HDMI 1.3 and DVI 1.0 compatible transmitter and supports all HDTV formats (including 1080p with 12-bit Deep Color). The ADV7510 also supports the x.v.Color™ space, high bitrate audio, DTS®, and programmable AVI InfoFrames features.

With the inclusion of HDCP, the ADV7510 allows the secure transmission of protected content as specified by the HDCP 1.3 protocol.

The ADV7510 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®.

Additional information is available from Analog Devices local sales and marketing personnel.

Functional Block Diagram



Analog Devices, Inc.
Worldwide Headquarters
 Analog Devices, Inc.
 One Technology Way
 P.O. Box 9106
 Norwood, MA 02062-9106
 U.S.A.
 Tel: 781.329.4700
 (800.262.5643,
 U.S.A. only)
 Fax: 781.461.3113

Analog Devices, Inc.
Europe Headquarters
 Analog Devices, Inc.
 Wilhelm-Wagenfeld-Str. 6
 80807 Munich
 Germany
 Tel: 49.89.76903.0
 Fax: 49.89.76903.157

Analog Devices, Inc.
Japan Headquarters
 Analog Devices, KK
 New Pier Takeshiba
 South Tower Building
 1-16-1 Kaigan, Minato-ku,
 Tokyo, 105-6891
 Japan
 Tel: 813.5402.8200
 Fax: 813.5402.1064

Analog Devices, Inc.
Southeast Asia Headquarters
 Analog Devices
 22/F One Corporate Avenue
 222 Hu Bin Road
 Shanghai, 200021
 China
 Tel: 86.21.2320.8000
 Fax: 86.21.2320.8222