

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.

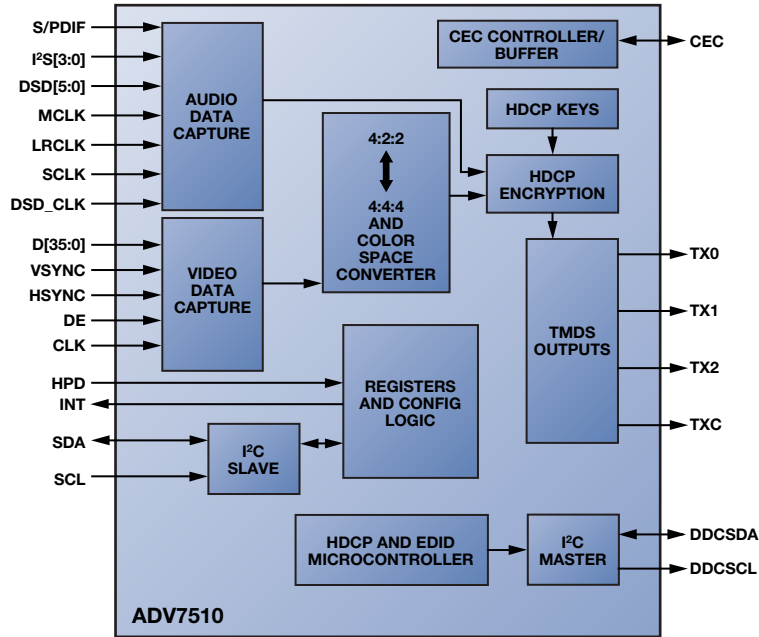
The digital video interface contains an HDMI 1.3 and DVI 1.0 compatible transmitter and supports all HDTV formats (including 1080p with 12-bit Deep Color). The ADV7510 also supports the x.v.Color™ space, high bitrate audio, DTS®, and programmable AVI InfoFrames features.

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



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