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ADV7510: DEEP COLOR HDMI 1.3 TRANSMITTER WITH CEC

The ADV7510 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, AV receivers, gaming consoles, and PCs.

The digital video interface contains an HDMI and a DVI v.1.0-compatible transmitter, and supports all HDTV formats (including 1080p with 12-bit Deep Color). ...[More](#)

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TECHNICAL DOCUMENTATION

[Application Notes](#) (pdf 111kB)
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FEATURES

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GENERAL

Incorporates HDMI (v.1.3 with Deep Color, x.v.Color)

225 MHz supports 12-bit Deep Color operation in all video

Supports Gamut Metadata Packet transmission

See data sheet for additional general features

DIGITAL VIDEO

Programmable two-way color space converter

Supports RGB, YCbCr, and DDR

DIGITAL AUDIO

Supports standard S/PDIF for stereo LPCM or compressed

8-channel uncompressed LPCM I2S audio up to 192 kHz

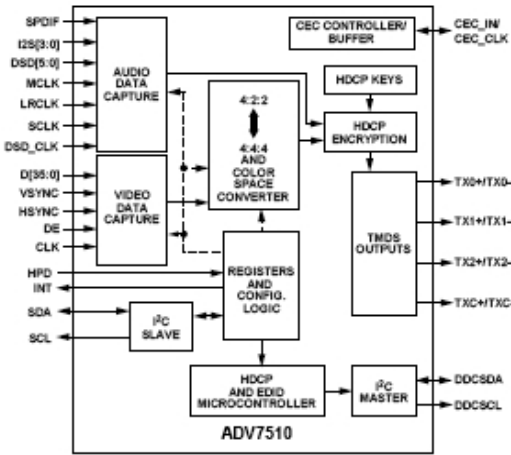
SPECIAL FEATURES FOR EASY SYSTEM DESIGN

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

FUNCTIONAL BLOCK DIAGRAM FOR ADV7510



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OF NOTE ...

Complete documentation (including detailed hardware and software guides) and software driver reference code are available upon completion of a [Non-Disclosure Agreement \(NDA\)](#) (pdf, 27,604 bytes) and a [Software Licensing Agreement](#) (pdf, 32,123 bytes). Submit your completed forms by attaching within the online [customer project detail form](#). Additional support is available from your Analog Devices [local sales](#). Information about obtaining licenses required for using HDMI and HDCP technologies is available from [www.hdmi.org](#) and [www.digital-cp.com](#).



[Additional product choices for Advanced TV applications are available on the Advantiv® site.](#)

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PRICING, PACKAGING & AVAILABILITY

[Print Table](#)

ADV7510 Model Options

Model	Status	Package	Pins	Temp. Range	Price* (100-499)	Price* (1000 pcs.)	Production** Availability	ROHS Compliant	View PCN	Samples Cart	Purchase Cart
ADV7510BSTZ-225	Prodn	LQFP 1.4 MM	100	Comm.	\$9.11	\$7.59	03/12/2010	Y Material Declaration	View PCN	Contact ADI	Contact ADI
ADV7510BSTZ-P	Prodn	LQFP 1.4 MM	100	Comm.	\$9.11	\$7.59	03/12/2010	Y Material Declaration	-	Contact ADI	Add To Cart
EVAL-ADV7510-AKZ	Contact ADI	EVALUATION BOARDS	-	TBD	-	-	-	Y	-	Contact ADI	Contact ADI
EVAL-ADV7510P-AKZ	Contact ADI	EVALUATION BOARDS	-	TBD	\$1,995.00	\$1,995.00	-	Y	-	Contact ADI	Contact ADI

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*The USA list pricing show n is for BUDGETARY USE ONLY, show n in United States dollars (FOB USA per unit for the stated volume), and is subject to change. International prices may differ due to local duties, taxes, fees and exchange rates. For volume-specific price or delivery quotes, please contact your local Analog Devices, Inc. sales office or authorized distributor. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.
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