



ADV7521NK: Low-Power HDMI/DVI Transmitter with Consumer Electronic Control (CEC)

The ADV7521NK is an 80 MHz, high definition multimedia interface (HDMI™) v.1.3 transmitter. It supports HDTV formats up to 1080i and 720p, and computer graphic resolutions up to XGA (1024 × 768 ...[More](#)

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 Opportunity 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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Features

General

Low-power HDMI™/DVI transmitter ideal for portable applications
CEC controller and buffer reduces system overhead
Compatible with HDMI v1.3 (supporting x.v.Color™), DVI v1.0
Single 1.8V power supply

Digital video

80 MHz operation supports all video resolutions from 480i to 1080i
Prog two-way CSC
Supports RGB, YCbCr, DDR
Supports ITU656 based embedded syncs
Auto input video format timing detection
(CEA-861D)

Digital audio

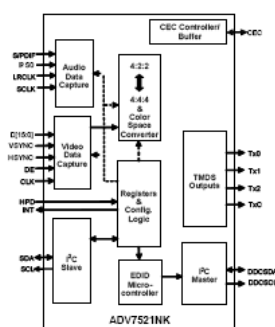
Supports standard S/PDIF for stereo LPCM or compressed audio up to 192 kHz
2-channel uncompressed LPCM I2S audio up to 192 kHz

Special features for easy system design

On-chip MPU with I²C® master to perform 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

Diagrams

[Enlarge](#) [Symbols and Footprints](#)



Functional Block Diagram for ADV7521NK

Video

This brief video, from the HDTV Conference, describes the features and benefits of the world's smallest HDMI transmitter... the ADV7521NK



Specifications

CEC Support	X	Resolution (Bits)	8bit
Function	HDMI/DVI Xmitter	Package	49-WLCSP
I2S Audio Channels	2	Sample Rate (MSPS)	0
Max Resolution	720p/1080i	SPDIF	X

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Pricing, Packaging & Availability

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ADV7521NK Model Options

Model	Status	Package	Pins	Temp. Range	Price* (1000 pcs.)	Production** Availability	ROHS Compliant	Samples Cart	Purchase Cart
ADV7521NK/PCBZ	Contact ADI		76	Comm.	\$1,995.00	-	Y	Contact ADI	Contact ADI
ADV7521NKBCBZRL-80	Prodn	CHIPS W/SOLDER BUMPS/WLSCP	49	Comm.	\$2.94	09/11/2009	Y Material Declaration	Contact ADI	Add To Cart
EVAL-ADV7521NK-CBZ	Contact ADI	EVALUATION BOARDS	-	TBD	\$500.00	-	Y	Contact ADI	Contact ADI
EVAL-ADV7521NK-CKZ	Contact ADI	EVALUATION BOARDS	-	TBD	\$1,995.00	-	Y	Contact ADI	Contact ADI

*The USA list pricing shown is for BUDGETARY USE ONLY, shown 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.

**Sample availability may be better than production availability. Please enter samples into your cart to check sample availability.

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