

FEATURES

Video signal processor

- Full 12-bit 4:4:4 YUV internal processing
- Motion-adaptive de-interlacing with ultralow angle interpolation
- Cadence detection for the recovery of original frames from film-based content
- Two video scalars allow two different output resolutions simultaneously
- Aspect ratio conversion/panorama scaling
- Sharpness and detail enhancement
- Noise reduction to reduce random, mosquito, and block noise

Frame rate converter

- Picture-in-picture (PIP) support

On-screen display (OSD)

- Internally generated bitmap-based OSD allowing overlay on one or more video outputs
- Overlay on 3D video formats
- Dedicated OSD scaler
- Alpha blending of OSD data on video data
- Option of external OSD
- Easy to use software tool for developing OSDs

HDMI® transmitters

- Dual HDMI transmitters enabling splitter capability
- Content type bits
- CEC 1.4 controller
- Audio return channel (ARC) support
- Supports standard S/PDIF for stereo LPCM compressed audio up to 192 kHz
- 6-channel uncompressed LPCM I²S audio up to 192 kHz
- 6-channel direct stream digital (DSD) audio inputs
- 6 NSV™ DAC video encoder
- 6 Noise Shaped Video (NSV®) 12-bit video DACs
- Multiformat video output support
 - Composite (CVBS), S-Video (Y/C), and Component YPrPb (SD, ED, and HD)
- Rovi® Rev. 7.1.L1 (SD) and Rev. 1.4 (ED) compliant
- Simultaneous SD and ED/HD operation

APPLICATIONS

- High-end A/V receivers
- Upconverting DVD players/recorders
- Blu-ray players/recorders
- Set-top boxes
- Video conferencing
- Standalone video processors
- HDMI splitters

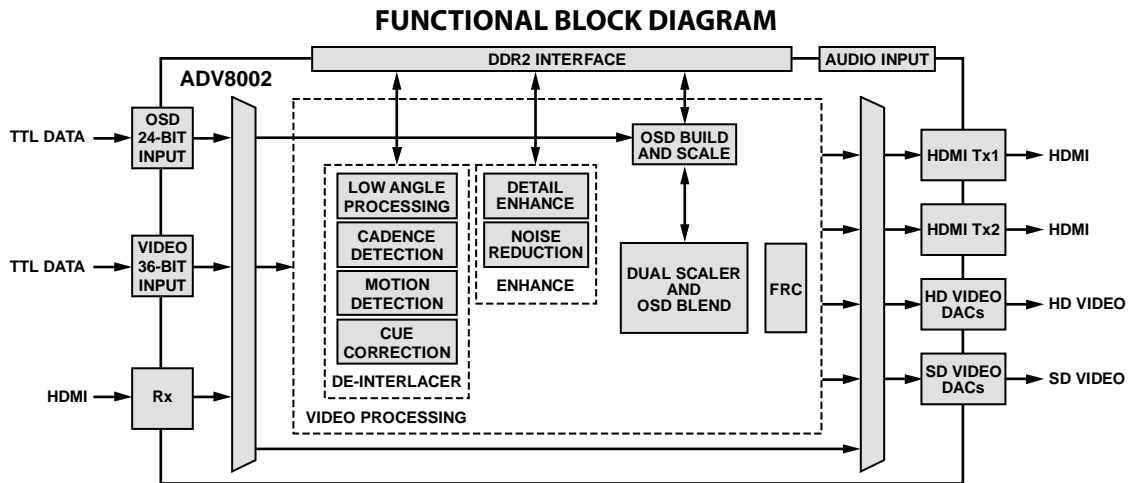


Figure 1.

For more information on the [ADV8002](#), contact a [local Analog Devices sales office](#).

Xpressview.

Fast Switching Technology
by Analog Devices

Rev. SpA

Information furnished by Analog Devices is believed to be accurate and reliable. However, no responsibility is assumed by Analog Devices for its use, nor for any infringements of patents or other rights of third parties that may result from its use. Specifications subject to change without notice. No license is granted by implication or otherwise under any patent or patent rights of Analog Devices. Trademarks and registered trademarks are the property of their respective owners.

One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106, U.S.A.
Tel: 781.329.4700 www.analog.com
Fax: 781.461.3113 ©2011 Analog Devices, Inc. All rights reserved.

NOTES

I²C refers to a communications protocol originally developed by Philips Semiconductors (now NXP Semiconductors).
HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.