

FEATURES

Video signal processor

- Full 12-bit, 4:4:4 YUV internal processing
- Motion adaptive de-interlacing with ultralow angle interpolation
- Multiple video processing paths with up to 3 simultaneous video streams including picture-in-picture (PIP) support
- Up- and down-scaling to/from 4k x 2k
- Aspect ratio conversion/panorama scaling
- Cadence detection for the recovery of original frames from film-based content
- Dual video scalers enable simultaneous output of multiple different resolutions
- Sharpness and detail enhancement
- Noise reduction for random, mosquito, and block noise
- Frame rate converter
- Video metrics readbacks to enable correct phase and frequency selection for graphics inputs

On-screen display (OSD)

- Internally generated bitmap-based OSD allowing overlay on one or more video outputs
- Overlay on 3D and 4k x 2k video formats
- Dedicated OSD scaler
- Alpha blending of OSD data on video data
- Disturbance free blending of OSD on either of 2 zones
- Support for external OSD
- Easy to use software tool for developing OSDs

HDMI transmitters

- Dual 4k x 2k HDMI transmitters enabling splitter capability
- Content type bits
- CEC 1.4 controller
- Audio return channel (ARC) support
- Support of 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
- Noise Shaped Video (NSV) six-DAC video encoder
- Six 12-bit NSV video DACs supporting multiformat video 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
- Professional video features
- Capability to output up to 36-bit TTL data
- Ability to synchronize output video to externally applied reference sync signals

APPLICATIONS

- High end A/V receivers
- Upconverting DVD players/recorders
- Video conferencing and distribution
- Standalone video processors
- HDMI splitters
- Video walls

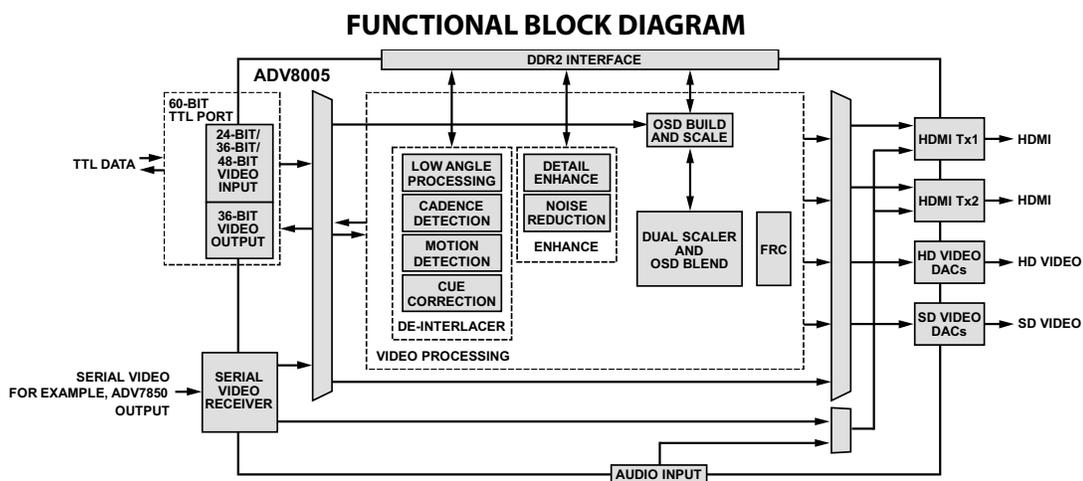


Figure 1.

NOTES

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