

H.264 Video Processors

Tiga-Universal Wireless Display Adapter Reference Design

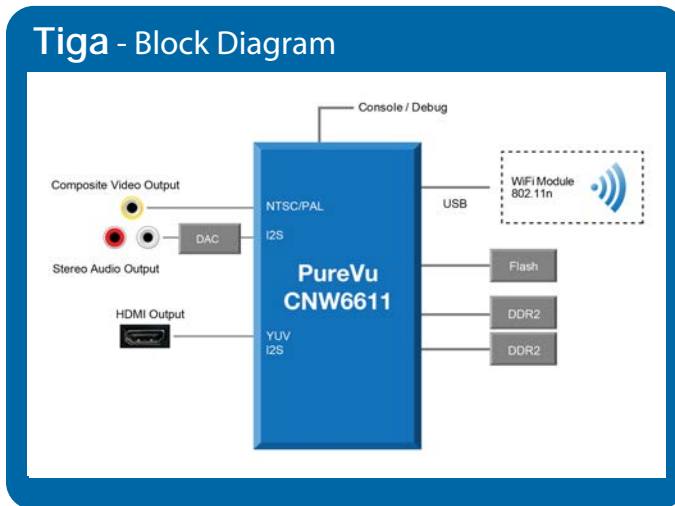
Preliminary Product Brief



OVERVIEW

The Tiga reference design is a cost effective wireless display receiver solution based on Cavium Networks, PureVu CNW6611 video processor SOC. It can support high quality 1080p HD video transmission, using standard wireless networking, 802.11n WiFi. The option to use various video codecs (including MPEG2 and H.264), provides backwards compatibility with existing home video networking standards, such as DLNA, with the added flexibility to move to the industry's most advanced video codec, H.264, to support upcoming WiFi Alliance's wireless display standard WFD. This flexibility in Tiga's capability to support different video and audio codes, along with its low cost design, makes Tiga industry's best option as a universal wireless displays receiver reference design.

The PureVu CNW6611 decoder provides pristine video quality all the way up to 1080p, making Tiga design suitable for wireless PC Monitors, Flat Panel Display's, and wireless display Rx accessories.



APPLICATIONS

- Stand-alone Rx dongle for wireless display
- Integrated wireless displays and panels

KEY FEATURES

- High performance 1080p30 or 1080i60 multi-format decoder
- Support for H.264, MPEG2, MPEG4, VC-1, AVS, and MJPEG decode
- Audio DSP for decode of AC3, AAC, MP3 up to 7.1 channels
- Integrated HDMI 1.3
- IEEE 802.11n WiFi
- Display processor with scaling, 5 layer programmable views
- 2D graphics

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FEATURES

Video Processor

- Support MPEG-2 high definition main profile, up to HD MP@HL, decode
- Support H.264 high, main and base profile, up to HD HP@L4.1, decode
- Support VC-1 SP/MP/AP profile at 1080p@30fps, decode
- Support AVS high definition jizhun profile, up to HD JIZHUN@6.2, decode
- Support MPEG4 SP & ASP, H.263 & Sorenson Spark, DivX Home Theater Profile, Real Video 8/9/10 at 1080p@30fps, decode
- Max resolution: 1080p30 or 1080i60

Audio Processor

- Programmable audio DSP with advanced DMA
- Decodes MP1/2/3, AC3, AAC-LC, HE-AAC audio streams
- 7.1-channel decoding and output

Video & Audio I/Os

- HDMI 1.3 output
- CVBS output
- L/R analog audio output

WLAN

- IEEE 802.11n WiFi

Other I/Os

- Serial console (debug)

Dimensions

- 75mm x 95mm