



Tiga2-Universal Wireless Display Adapter Reference Design

Preliminary Product Brief

OVERVIEW

Cavium's Tiga2 reference design is a cost effective small form-factor wireless display and media streaming TV adapter, optimized as a universal receiver accessory for laptops, smartphones, and tablets. With support for a wide range of wireless display and media streaming standards, including Cavium's WiVu, WiFi Alliance's wireless display specification, and DLNA, Tiga2 is an ideal universal wireless adapter for viewing both user generated and premium content on high definition displays. In addition to a stand-alone adapter, the Tiga2 design can serve as a reference for integrated module inside wireless monitors and portable displays.

Based on the innovative CNW6611L media SoC from Cavium, the Tiga2 adapter reference design offers support for full 1080p high definition content. The reference platform is perfectly suitable for wireless PC monitors, flat panel displays, and wireless display adapters.



APPLICATIONS

- Wireless display TV adapter
- Home media streaming receiver
- Wireless monitors and TV module

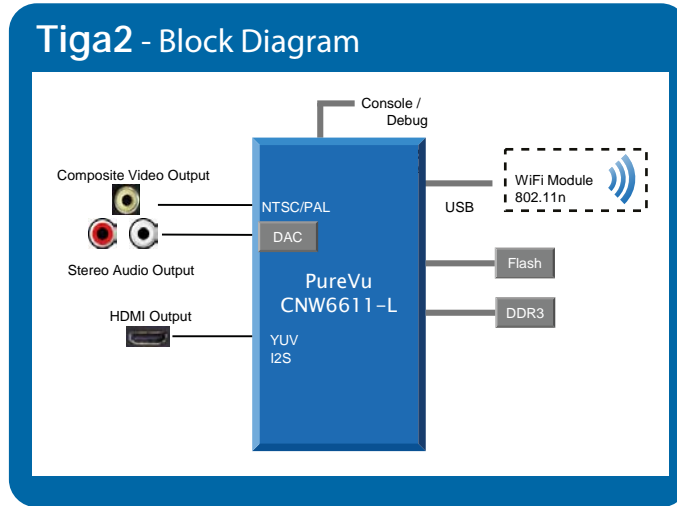
KEY FEATURES

- Multi-format audio and video decode
- Support for WiVu, WFD, and DLNA
- HDMI 1.3 output
- Up to 1080p display capability
- Support for HDCP 2.x and DTCP-IP



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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

Security

- HDCP 2.0 to HDCP 2.x
- DTCP-IP

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)
- USB 2.0

Dimensions

- 75mm x 95mm

Tiga2 - Product Family

Part Number	Description
CNW6611L-EVK-TG2	Tiga2 universal wireless display adapter reference design



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