

KestrelMedia[™] All Media Player

ESS-based HD Player of DVDs, Flash Cards, and Streamed Files over WiFi/Ethernet

ESS

Version



Wireless All Media Player Evaluation Unit

The KestrelMedia[™] "All" Media Player design can play back DVDs, Flash cards and streamed audio/video/photo files located on other devices connected to your home WiFi or Ethernet network. Just like a standard DVD player, the unit connects to TVs through a variety of standard A/V interfaces. When streaming files over from the home network however, it uses DLNA[™] (Digital Living Network Alliance) compliant protocols to discover, classify and play back remotely stored audio/photo/video files from a wide variety of DLNA compliant servers.

The KestrelMedia platform differentiates itself in three main areas:

- 1) Provides extremely reliable and robust user experience
- 2) Cost-effective solution leverages media decoder used in many DVD players, flat panel TVs (FPTVs) and set top boxes (STBs)
- 3) Clear integration path into existing consumer electronics products

Other networked streaming solutions invariably fall short on one or more of these targets today. To support a robust user experience for streaming playback of multimedia files over WiFi networks, the KestrelMedia platform is based on a dual architecture approach, using separate processors for networking and AV/GUI processing. This provides a product capable of supporting 802.11g, SuperG, MIMO, or even the EWC/pre-11n wireless connectivity (Atheros radios), but with enough horsepower for AV processing, menu navigation and all traditional user interface functions to work quickly and reliably. With the KestrelMedia platform, streaming content over the network works better than playing DVDs/CDs in a normal DVD/CD player.

Other product variations for Wireless LCD TVs, STBs and standalone media players are available using alternate versions of ESS codec ICs.

KEY FEATURES

- All Media Player reference design — for play back of:
 - DVDs, CDs, Flash Drives/Cards
 - Streamed movies/music/photos over home network or internet
- Wireless Media Player prototype for DVD players, TVs, and STBs
- Dual Architecture implementation for best performance and easy integration
 - ESS Codec for media and UI
 - Ubicom Network CPU for best-in-class WiFi streaming performance

SPECIFICATIONS

- Networking capabilities
 - DLNA v1.5 compliant design - works with Windows Media Player 11 and other UPnP servers
 - DLNA player and renderer
 - Connect via WiFi, 10/100 Ethernet
 - Atheros Radio Support:
 - 802.11a/g, SuperG, MIMO, pre-n
 - WPAv2, WCN protocols
- Multimedia Resolution/Formats:
 - Resolution
 - Photo Decode 3480x5120 pixels
 - Video Decode 480p/576p
 - Video Output = 720p/1080i
 - Formats
 - Video: MPEG1, MPEG 2, MPEG4, DIVX, XVID, MJPEG
 - Photo: JPEG, GIF, BMP, PNG
 - Audio: PCM/WAV, MP3, WMA, AC3, AAC, OGG Vorbis
 - Inputs/Outputs and Connectors
 - Video: Composite (RCA), S-Video, Component (YPbPr), VGA, SCART, HDMI
 - Audio: Stereo L/R (RCA), S/PDIF (optical/coax)
 - Storage playback: USB v2.0FS, multi-format Flash card reader

Product Brief