Today’s consumers are rapidly adopting digital audio as a key component of their home entertainment systems. Consequently, systems developers must contend with a confusing array of formats and communication interfaces. Atmel® offers a complete audio platform that kick-starts high-quality audio development in this fast-paced market.

**Speed Products to Market with Faster Development**

The complexity of digital audio systems can put a severe strain on engineering resources. Simply establishing basic functionality can present a major challenge. By offering a turnkey application platform, Atmel enables developers to leapfrog the design of basic functions, and instead focus on product differentiation and value-added features. The fully functional audio player reference design supports the following:

- MFi, MP3, WMA and AAC audio and metadata decoding
- Ready-to-use USB protocol stack, classes and file systems
- Sample rate conversion
- Audio player API
- Application notes on USB, I2S, audio decoding and more
- Development and evaluation board

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Stream Audio from Any Source to Any Output

Atmel® provides wide support of storage media and interfaces which lets you enable almost any audio path between source and playback.

**Outputs:**
- External I²S DAC
- Internal DAC

**Sources:**
- Digital audio output from iPod, iPhone & iPad
- USB hosts using USB Audio Class such as personal computers
- USB Mass Storage Class devices with file system support
- SD card and MMC
- NAND Flash
- Wi-Fi

Design Unique Products

Innovative Atmel audio technologies give you the flexibility to develop and differentiate a variety of products. Atmel AVR® UC3 audio microcontrollers deliver unsurpassed performance/power ratios and a variety of memory sizes and peripheral selections.

The Atmel QTouch® Library lets you implement robust, reliable capacitive touch buttons, sliders, and wheels using standard microcontrollers.

The Atmel Software Framework supports audio functions and enables easy access to differentiating technology in our microcontrollers.

The Atmel RF4CE enables next-generation, RF-based remote controls, supported by ZigBee® hardware transceivers and software protocol stacks.

Accessory authentication provided by Atmel CryptoAuthentication™ makes it easy to control the accessory market by limiting access to approved vendors only.

For more information, visit [http://www.atmel.com/audio](http://www.atmel.com/audio)