

# Stream810

## iMX7 Dual Audio Streaming Module

### Key Points

- Versatility, flexibility and rich specification is the ideal base for your next generation connected product.
- Enables the addition of UPnP/DLNA, USB, Internet Music and Radio services, Chromecast built-in and AirPlay to any product.
- Control via local keys, remote control, smartphone apps, voice, host controller or by using the included web based UI.
- Voice pre-certification for Google Assistant and Amazon Voice Services.
- Distribute audio content to several rooms - fully synchronized - using a standard network connection.
- Powerful dual core iMX7 Dual Audio CPU provides enough headroom for future applications.



### Features

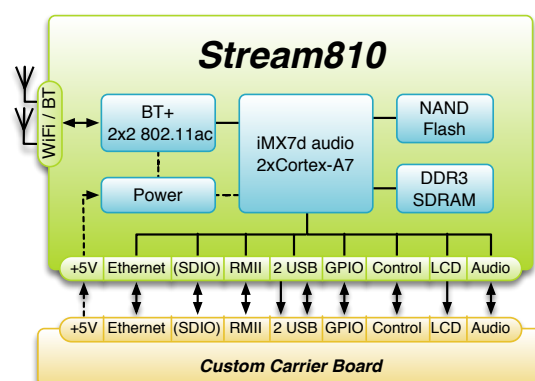
- Ethernet, dual band Wi-Fi 2x2 802.11a/b/g/n/ac
- Bluetooth 4.2 / BLE
- UPnP-DLNA/AirPlay/USB/BT local content access
- Multiple online music services and Chromecast built-in
- Advanced clock sync for multi-room & multichannel
- Playback of all common audio formats
- Support of HD formats (up to 384kHz/24Bit)
- DSD support (DOP, DSF)
- Multichannel audio input and output, TDM support
- Local UI with skinning support
- Control via local user interface, Smart Phone App, web user interface and voice input
- Small form factor
- Advanced security features

### Potential Applications:

- Audio streaming clients controlled via a local UI, Smart Phone Apps, web based UI and voice input
- Audio/Video receivers
- Active speakers with streaming audio/video
- Building/Home automation control panels or clients
- Distributed or central server based multi-room systems with multiple audio sources and sinks
- Voice Assistant Products
- Wi-Fi IoT devices
- Connected Soundbars

### General Benefits

- Reduced development costs and time-to-market
- Software is simple to customize
- Module is in production & reference carrier board is available (StreamKit Prime)
- Different configuration options available
- Design-in support and customization services available
- Long term availability and maintenance provided by StreamUnlimited
- Smart Phone/Tablet control apps available
- Long term availability of the module due to strong key component life cycle management.

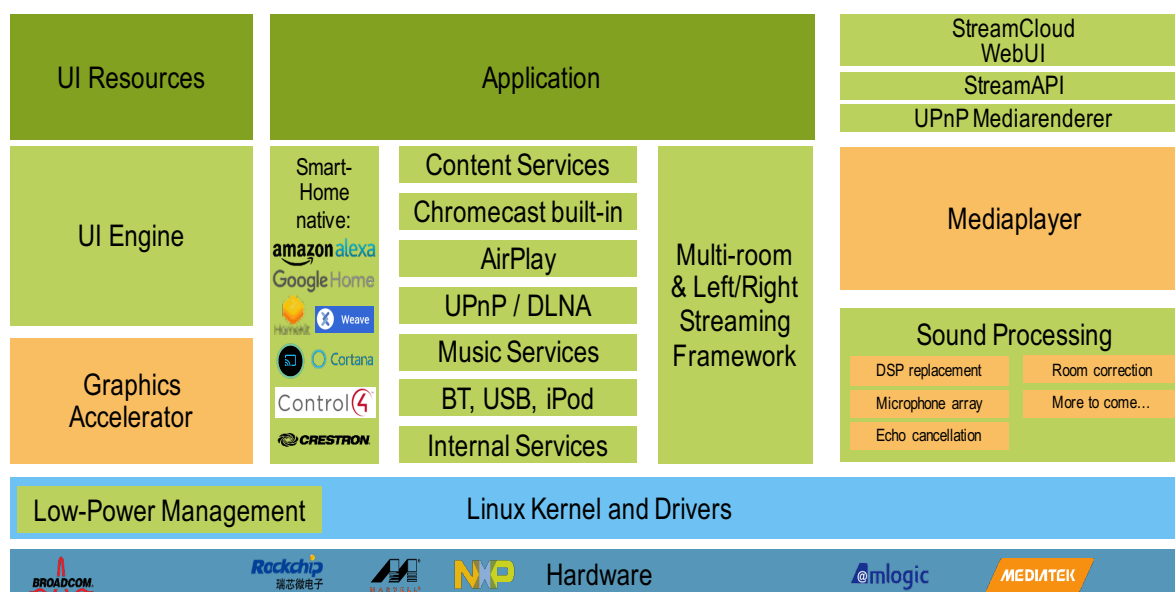


## Online Services

- Including Spotify, Tidal, Rhapsody, SiriusXM, TuneIn, Airable, vTuner, Deezer, etc.
- Other services on request
- Framework for rapid integration

## Options for control

- Local user interface
- Smart Phone App using StreamConLib (iOS, Android)
- Web user interface
- Host controller
- Voice services



## SW architecture

- Engineered from scratch to meet all requirements of next generation audio streaming clients
- Modular design - high flexibility
- Unified API for all content services
- Mediaplayer based on GStreamer
- UI engine allows easy customizations
- Highly portable SW stack
- Continuous quality control of all core SW components/ automated tests
- Full documentation is available
- Linux based

## Interfaces/Connectivity

- 1.27 mm pin header connector dual/single row
- Wi-Fi 2x2 802.11a/b/g/n/ac - dual band
- Bluetooth 4.2/BLE
- Ethernet 10/100 Mbit/s
- SDIO interface option (SD card, alternative Wi-Fi, etc.)
- 2x USB 2.0 OTG with iPod digital audio
- GPIOs, LCD
- Control interface to carrier board (I<sup>2</sup>C, SPI)
- Multichannel digital audio inputs and outputs (I<sup>2</sup>S, TDM, microphone array)

**StreamUnlimited** is an integrated embedded engineering house focusing on innovative and quality products. We have high level competences in Connectivity and User Interface Technology, powered by a strong background in Audio and Video. Alongside providing development and integration services to a diverse customer base, StreamUnlimited also offers a range of fully featured products.

