Stream800
Streaming Audio Module with Multi Room

StreamUnlimited
embedded innovation

Description

The versatile and flexible Stream800 module is the ideal base for your next generation connected product. It enables you to add UPnP/DLNA, USB, iPod, Internet Radio, AirPlay and network shares access to any solution. Control can be done via local keys, remote control, smartphone apps or simply using the included web based user interface. In addition to that you can distribute any audio content to several rooms - fully synchronized - using a standard network connection. The system relies on a very powerful CPU which provides enough headroom for future applications.
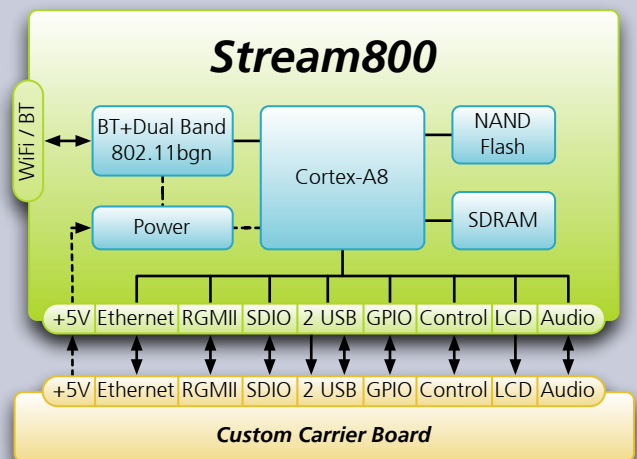
Features

- UPnP/DLNA/AirPlay/USB/fileshare/iPod/ Bluetooth access for local content
- Support of various online music services
- Multiroom framework - fully synchronized audio playback in several rooms, any device can act as server or player
- Playback of all common audio formats
- Support of HD formats (up to 192kHz/24Bit)
- Local UI with skinning support
- Control via local user interface, Smart Phone App or web user interface
- Graphics accelerator (optional) for animated user interfaces

Possible product variations:

- Audio streaming clients controlled via a local user interface, Smart Phone Apps or web based user interface
- Audio/Video receivers
- iPod docking devices
- Building and home automation control panels or clients with streaming functionality
- Distributed or central server based multi room systems with multiple audio sources and sinks

Interfaces/Connectivity

- SO-DIMM 200 board edge connector
- Wi-Fi 802.11b/g/n (dual band, WoWLAN)
- Bluetooth
- Ethernet 10/100 Mbit/s (WoLAN)
- RGMII for 2nd Ethernet or alternative Wi-Fi
- SDIO interface (SD card, alt. Wi-Fi, etc.)
- 2x USB 2.0 (1x OTG) with iPod digital audio
- GPIOs, LCD
- Control interface to carrier board (I^2C, SPI)
- Digital audio interfaces (I^2S, SPDIF)

Online Services

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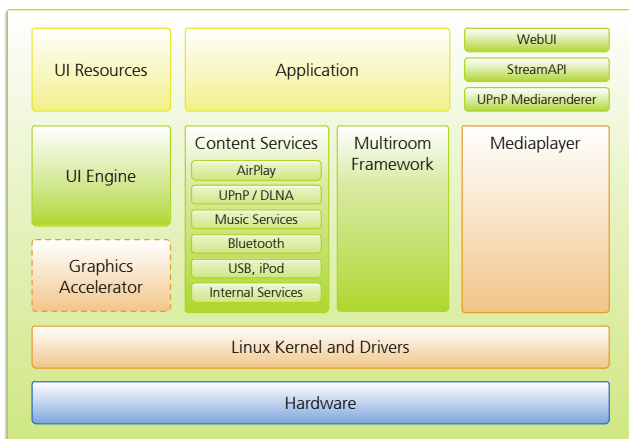- Other services on request
- Framework for rapid integration

Stream800 (cont.)
Streaming Audio Module with Multi Room

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
- Popular operating system - widely known

General benefits

- Reduced development costs and time-to-market
- Simple to customize
- Module is in production / reference carrier board is available
- 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 availability of the module due to strong key component life cycle management.

Options for control

- Local user interface
- Smart Phone App using StreamConLib (iOS, Android)
- Web user interface

– – – – – Playback control, meta data display (received from StreamSDK)
· · · · · · · Control of customer specific electronics (volume, source selection)

About StreamUnlimited

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. We provide development and integration services to our customers. StreamUnlimited also offers a range of fully featured digital modules.

Further information

StreamUnlimited Engineering GmbH
Gutheil-Schoder-Gasse 10 1100 Vienna, Austria
Phone: +43 1 667 2002 4014
E-mail: sales@streamunlimited.com
http://www.streamunlimited.com