

LinTech



HBM11

Wireless Audio Multiroom Streaming Module

High quality audio streaming Linux system made in Germany

The HBM11 is a low-cost and powerful System-on-Module (SoM) especially designed for high quality audio streaming applications in the 2.4GHz and 5GHz frequency band.

Its complete reference design drastically reduces the development time to start own applications on a custom carrier board.

The HBM11 highly integrated connectivity already includes all necessary interfaces: Wi-Fi, Bluetooth, BLE, Ethernet, analog and digital audio, digital display and serial interfaces – to minimize the need for external components.

The audio optimized Linux system supports audio streaming protocols with Spotify Connect, AirPlay 2®, UPnP, OpenHome, DLNA, Bluetooth to all kind of home audio entertainment systems including A/V receivers, wireless speakers and portable audio devices.

Main hardware features

- **CPU:** NXP i.MX 6ULL (Arm® Cortex®-A7)
- **NAND Flash:** 2Gb | 4Gb
- **RAM:** 128MB | 256MB
- **Wi-Fi + Bluetooth:** 2.4GHz | 2.4+5GHz
- **Ethernet:** 10/100Mb PHY with RMII
- **DAC:** WM8524 (24bit, 8 – 192kHz, SNR 112dB)
- **Power supply:** 5V@1A
- **Dimensions:** 34x50mm



Audio formats

- MP3
- AAC, aptX, LDAC
- FLAC, ALAC
- Vorbis/Opus
- WMA
- AC3
- APE/WavPack

Supported protocols

- Spotify Connect
- AirPlay 2®
- UPnP
- OpenHome
- DLNA
- Multiroom over Songcast
- Bluetooth A2DP Sink

Networking

- IEEE 802.11 ac/b/g/n, 2.4 & 5 GHz
- 10/100 Mbps Ethernet
- Bluetooth 4.2
- WPS
- On-board dual band antenna + U.FL connector

Audio Interfaces

- **Digital:** I2S
- **Analog:** Line-out (L/R)

Other Interfaces

- Line-In (via I2S)
- UART
- USB (Host + OTG)
- I2C
- SPI
- Keys (Multimedia, WPS, Reset)
- LCD
- PWM
- GPIO

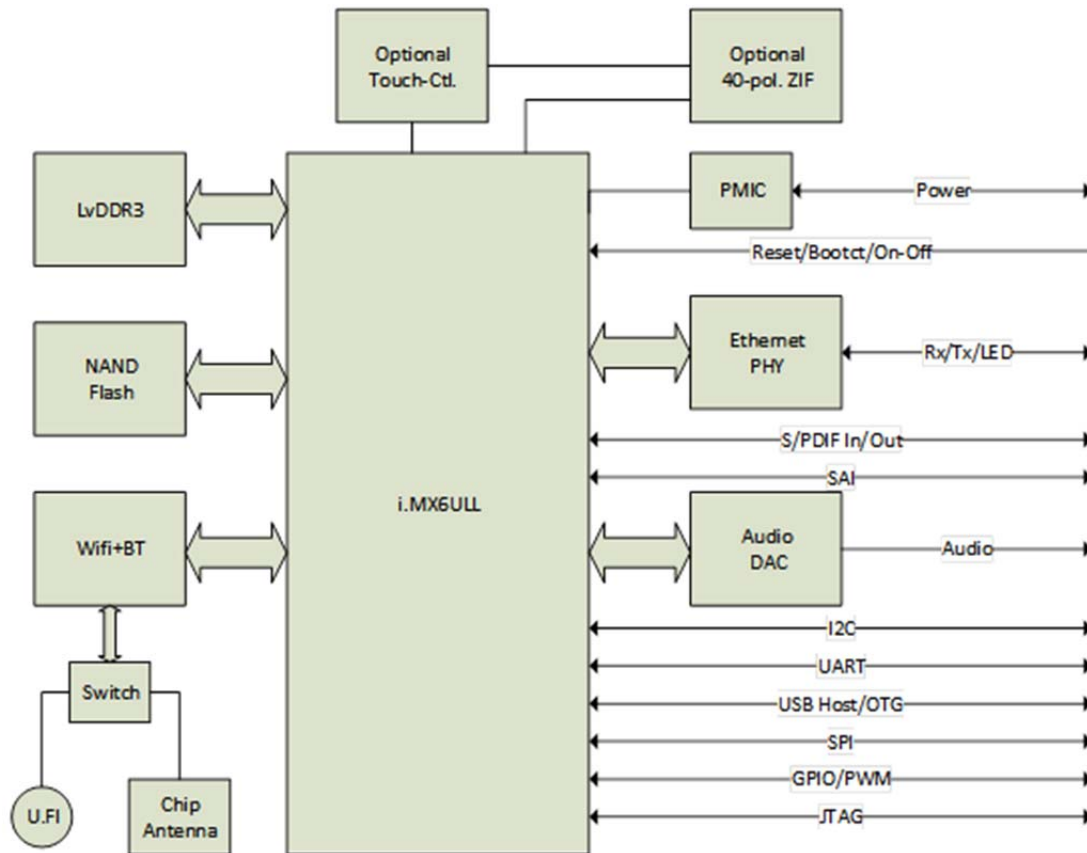
Container formats

- MP4
- MKV
- OGG
- WAV
- AIFF
- ASF

Supported playlists

- DLNA
- Media server
- Radio by Tuneln
- TIDAL
- Qobuz

Block Circuit



HBM10/11 Evaluation Board



The HBM10/11 Evaluation Board enables quick and easy evaluation and development of audio applications based on the HBM11 audio module.

Ordering information

- Part#:6212 (HBM11 BT/ 2.4GHz Audio Module)
- Part#:6213 (HBM11 BT/2.4/5GHz Audio Module)
- Part#:6211-EVAL (HBM11 Evaluation Board)
- Part#:6211-EVAL-lineIn (Line-In Expansion for 6211-EVAL)

*If you have any questions about this product, please contact:
Ms Susanne Meinel
Tel: +49 (30) 54 94 72 61
E-mail: sam@litech.de*



Friedrich-Engels-Straße 35, D -13156 Berlin
Phone: +49 (030) 54 94 72 60
Fax: +49 (030) 54 94 72 44
E-Mail: LinTech@LinTech.de
<http://www.LinTech.de>