StreamUnlimited Stream1832 Mainstream Hardware Module for Audio Streaming and IoT Instructions

Contents

StreamUnlimited Stream1832 Mainstream Hardware Module for Audio Streaming and IoT

Product Information

Specifications

- 4 x ARM Cortex-A53 SoC
- 100MBit Ethernet, IEEE 802.11a/b/g/n/ac 1×1 with antenna diversity (Wi-Fi 5)
- Bluetooth listing available (Bluetooth 5.2 / BLE)
- USB 2.0
- 4GBit DDR3 RAM, 4GBit Flash
- Compatible with MEMS microphones (PDM)
- Compatible with all common audio formats including multi-channel audio
- Voice assistant support without DSP
- Low power consumption
- Low application cost (attaches directly to the application PCB; no interface connectors required)
- Advanced security features
- Module size: 31 x 40mm

Product Usage Instructions

Integration

- The product is optimized to run StreamSDK software and can be integrated into various applications such as streaming audio receivers, wireless streaming speakers, connected soundbars, home automation products, and Wi-Fi IoT devices.

Programming and Testing

- Utilize the mass production fixture for programming final product software via a simple PC interface for production automation.
- Test programmed modules before soldering to the application board and perform production testing of the complete product.

Support

- Local FAE support is available in Asia.
- The module can be obtained from local production in China or through self-manufacturing with StreamUnlimited support.

FAQ

- **Q:** What are the potential applications of the Stream1832 module?
- **A:** The potential applications include streaming audio receivers, wireless streaming speakers, connected soundbars with voice assistant built-in, home automation products, and Wi-Fi IoT devices.
- **Q:** Is the Stream1832 module compatible with MEMS microphones?
- **A:** Yes, the module is compatible with MEMS microphones that use Pulse Density Modulation (PDM).
- **Q:** What are some key features of the Stream1832 module?
- **A:** Some key features include ARM Cortex-A53 SoC, Wi-Fi connectivity, Bluetooth listing, USB 2.0 support, voice assistant compatibility, low power consumption, and advanced security features.

Features

- 4 x ARM Cortex-A53 SoC
- 100MBit Ethernet, IEEE 802.11a/b/g/n/ac 1×1 with antenna diversity (Wi-Fi 5)
- Bluetooth listing available (Bluetooth 5.2 / BLE)
- USB 2.0
- 4GBit DDR3 RAM, 4GBit Flash
- Compatible with MEMS microphones (PDM)
- Compatible with all common audio formats including multi-channel audio
- Voice assistant support without DSP
- Low power consumption
- Low application cost (attaches directly to the application PCB; no interface connectors required)
- Advanced security features

Potential Applications

- Streaming audio receivers
- Wireless streaming speakers
- Connected soundbars with voice assistant built-in
- Home automation products
- Wi-Fi IoT devices

Product Integration

- Optimised to run proven and feature-rich StreamSDK software (Immersive Audio support with external DSP)
- Reference applications & schematics for voice assistant or streaming products
- Reference code for a host microcontroller

- Mass production fixture for programming final product software via a simple PC interface for production automation
- Testing of programmed modules prior to soldering to the application board
- Production testing of the complete product
- Local FAE support in Asia
- Module available from local production in China, or via self-manufacturing with StreamUnlimited support
- Module size 31 x 40mm

StreamUnlimited, founded in 2005, is a supplier of software solutions and hardware modules for connected audio and IoT products, with over 120 employees at office locations in Vienna, Bratislava, Shenzhen, Osaka, and San Francisco. As the de facto global system integrator offering its own IP and engineering services, StreamUnlimited development partnerships include all major semiconductor companies and technology providers in the consumer electronics and IoT channel. StreamUnlimited works with a global cross-section of high-end audio, CEDIA-channel, premium, and mainstream consumer electronics and smart home manufacturers.

CONTACT

- StreamUnlimited Engineering GmbH
- Gutheil-Schoder-Gasse 10, 1100 Vienna, Austria
- E-mail: **sales@streamunlimited.com**
- Website: **www.StreamUnlimited.com**

Documents / Resources

	**StreamUnlimited Stream1832 Mainstream Hardware Module for Audio Streaming and IoT** [pdf] Instructions v6.0, Stream1832 Mainstream Hardware Module for Audio Streaming and IoT, Stream1832, Mainstream Hardware Module for Audio Streaming and IoT, Hardware Module for Audio Streaming and IoT, Module for Audio Streaming and IoT, Audio Streaming and IoT, Streaming and IoT, IoT

References

- **User Manual**