




StreamUnlimited Stream1955 Next Gen System On Module User Guide

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StreamUnlimited Stream1955 Next Gen System On Module



Product Information

The Stream1955 is a next-generation System-On-Module that enables a breakthrough for connected Smart Soundbars with Dolby Atmos / Sony 360 / DTS:X. It is a compact module (34 x 47mm) that provides online connectivity, 3D audio (Dolby Atmos...) and voice assistant capability in one single unit. This module is suitable for a range of applications, including:

- Smart Dolby ATMOS / DTS:X Soundbars
- Connected audio products with or without voice assistant, high-quality display, 3D audio...
- High-end audio products
- Enhance any product by adding connectivity and voice assistance

The Stream1955 features a Quad Core ARM A53 1.6 Ghz NXP iMX8M mini/nano processor, the latest SoC platforms with ample processing power and a multitude of signal interfaces (multi-channel I2S I/O, MIPI, etc.), WiFi 802.11ax (WiFi 6) 2 x 2 MIMO / BT 5.0, eMMC and DDR4 memory, RAM 8Gb / Flash 16 Gb (pSLC), and state-of-the-art wireless link robustness. It also has 3D Audio decoding in SoC – no DSPs required, and all major voice assistants can be realized without extra DSP. The StreamSDK software is optimized to run proven and feature-rich, and the module and StreamSDK take care of the most complex parts of a connected device and therefore de-risk the product creation process.

Usage Instructions

The Stream1955 can be used to add online connectivity, 3D audio, and voice assistant capability to a range of audio products. To use the Stream1955, follow these steps:

1. Integrate the Stream1955 module into your audio product.
2. Connect your audio product to a power source.
3. Connect your audio product to a wireless network using the WiFi 802.11ax (WiFi 6) 2 x 2 MIMO / BT 5.0.
4. Configure the StreamSDK software to enable the desired features, such as 3D audio decoding and voice assistant capability.

5. Test your audio product to ensure that it is working correctly.

For further technical support, please contact StreamUnlimited Engineering GmbH by phone at +43 1 667 2002 4014 or by email at sales@streamunlimited.com. You can also visit the StreamUnlimited website at www.StreamUnlimited.com.

Stream1955 Online connectivity, 3D audio (Dolby Atmos...) and voice assistant capability in one single module

Next-generation System-On-Module enables a breakthrough for connected Smart Soundbars with Dolby Atmos / Sony 360 / DTS:X

Key Points

- 3D Audio decoding in SoC – no DSPs required
- All major voice assistants can be realized without extra DSP
- Optimized to run proven and feature-rich StreamSDK Software
- Module and StreamSDK take care of the most complex parts of a connected device and therefore de-risk the product creation process
- Compact size (34 x 47mm)
- Low power

Potential Applications

- Smart Dolby ATMOS / DTS:X Soundbars
- Connected audio products with or without voice assistant, high-quality display, 3D audio...
- High-end audio products
- Enhance any product by adding connectivity and voice assistance

Features

- Quad Core ARM A53 1.6 Ghz NXP iMX8M mini/nano
- Latest SoC platforms with ample processing power and a multitude of signal interfaces (multi-channel I2S I/O, MIPI, etc.)
- WiFi 802.11ax (WiFi 6) 2 x 2 MIMO / BT 5.0
- State-of-the-art wireless link robustness
- eMMC and DDR4 memory
- RAM 8Gb / Flash 16 Gb (pSLC). Plenty of storage space even for demanding applications

Schedule

- In mass production

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, Iasi, Shenzhen, Japan and Santa Clara, CA. 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.

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Documents / Resources

A thumbnail image of the user guide cover for the Stream1955 Next Gen System On Module. It features a blue and white design with a circuit board image and the product name.	<p>StreamUnlimited Stream1955 Next Gen System On Module [pdf] User Guide V4.1, Stream1955 Next Gen System On Module, Stream1955, Next Gen System On Module, System On Module, Module</p>
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References

-  [Home - StreamUnlimited Engineering GmbH](#)