12V power supply

AUX input

Headphone output

5.1.2 audio outputs

Microphone mute switch

Infineon XENSIV™MEMS microphones IM69D130

5 x LEDs for attention state recognition

Control buttons

Optical input & output

Stream1955 hardware module

Ethernet

USB-C port

HDMI eARC option

MIPI-DSI display

Stream1955 Module Features

▸ 4xARM Cortex-A53 1.8GHz SoC

▸ Wi-Fi 802.11ax 2x2 (WiFi 6)

▸ 32Gb eMMC (configured to 16Gb pSLC)

▸ 8Gb DDR4

▸ Interface: 2 x 80 pin Connector

▸ Compatible with MEMS microphones (PDM)

▸ 3D Audio decoding without extra DSP and a large number of audio channel interfaces

▸ Up to 2 USB OTG ports

▸ Control via I2C, SPI, UART

Potential Applications

▸ Multichannel soundbars with immersive audio support (Dolby Atmos, Reality Audio 360, Auro 3D)

▸ Streaming audio receivers

▸ Wireless streaming speakers

▸ Wireless speakers with Voice Assistants

▸ Home automation products

▸ Wi-Fi IoT devices

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.

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V6.2