

BT Audio 3 Click



PID: MIKROE-4947

BT Audio 3 Click is a compact add-on board with high-performing voice and audio post-processing capability for Bluetooth audio applications. This board features the [BM83](#), a fully certified Bluetooth v5.0 stereo audio module from [Microchip](#). The BM83 contains an onboard Bluetooth stack and audio profiles and supports 24-bit/96 kHz high-resolution audio formats to enable high-fidelity wireless audio. An integrated Digital Signal Processor (DSP) decodes AAC and SBC codecs and executes advanced audio and voice processing such as Wide-Band (WB) speech, Acoustic Echo Cancellation (AEC), and Noise Reduction (NR). Configured in Host mode, the BM83 allows data processing via the UART interface, and in addition, comes with many additional features such as audio control buttons, onboard microphones, LED indicators, and more. This Click board™ is suitable for Bluetooth audio applications, more precisely, for a smartphone (source) streaming audio to a speaker.

BT Audio 3 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	BT/BLE
Applications	Can be used for Bluetooth audio applications, more precisely, for a smartphone (source) streaming audio to a speaker
On-board modules	BM83 - fully certified Bluetooth v5.0 stereo audio module with high-performing voice and audio post-processing capability for Bluetooth audio applications from Microchip
Key Features	Stereo audio module is built around the IS2083BM SoC, qualified for Bluetooth v5.0, Inter-IC Sound interface, high resolution up to 24-bit, 96 kHz audio data format, noise reduction, acoustic echo cancellation (AEC), and EQ filtering, and more
Interface	UART
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[AK4430 datasheet](#)

[BM83 datasheet](#)

[BT Audio 3 click 2D and 3D files](#)

[BT Audio 3 click schematic](#)

[BT Audio 3 click example on Libstock](#)

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