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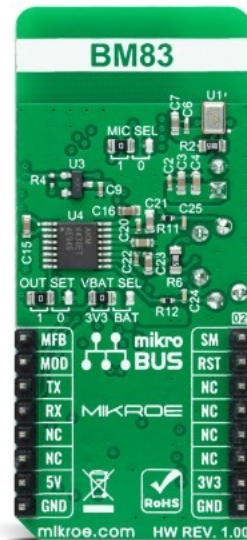www.mikroe.com

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.

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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