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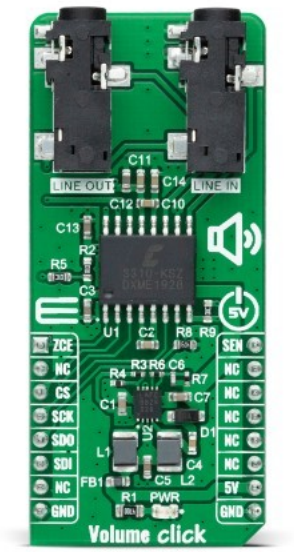
Volume Click



PID: MIKROE-4450

Volume Click is a compact add-on board that provides the user with complete digital volume control. This board features the CS3310, a stereo digital volume control designed specifically for audio systems from Cirrus Logic. It controls two independent low distortion audio channels with an adjustable range of 127 dB, in 0.5 dB steps achieved through 95.5 dB of attenuation and 31.5 dB of gain. It also contains a simple SPI serial interface that accepts 16-bit data, and offers low distortion and noise. This Click board™ represents a perfect solution for remote audio volume control applications

Volume 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	Signal Processing
Applications	Can be used for remote audio volume control applications.
On-board modules	- CS3310, a complete stereo digital volume control designed specifically for audio systems from Cirrus Logic - LT3032, a dual 150mA positive and negative low noise low dropout linear regulator with micropower quiescent current from Analog Devices.
Key Features	Complete digital volume control, wide adjustable range, low distortion, low noise active output stage capable of driving a 600Ω load, and more.
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

CS3310 datasheet

Volume click 2D and 3D files

Volume click schematic

Volume click example on Libstock

LT3032 datasheet