

Audio Xover Click



PID: MIKROE-4104

Audio Xover Click is an analog active crossover solution for two-way loudspeakers. The primary purpose of the crossover circuit in a loudspeaker is to split an incoming audio signal into frequency bands that are passed to the speaker or “driver” best suited. Audio Xover Click is based on [Microchip's MCP6H012](#) operational amplifier with rail-to-rail output operation, connected in configuration for 2nd order Butterworth filter for both low pass and high pass filters. With a frequency response independent of the dynamic changes in a driver's electrical characteristics and individual channel cutoff frequency selection it's great solution for crossover.

Audio Xover Click board™ 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	Signal Processing
Applications	Audio crossover
On-board modules	MCP6H012
Key Features	A frequency response independent of the dynamic changes in a driver's electrical characteristics, power amplifiers are directly connected to the speaker drivers, individual channel cutoff frequency selection...
Interface	GPIO
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Audio Xover click example on Libstock](#)

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

[MCP6H01 datasheet](#)

[Audio Xover click schematic](#)

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