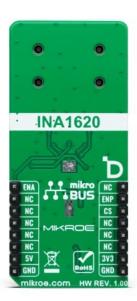
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Headphone AMP 3 Click





PID: MIKROE-5721

Headphone AMP 3 Click is a compact add-on board that contains a stereo headphone amplifier. This board features the INA1620, a high-fidelity audio operational amplifier with integrated thin-film resistors and EMI filters from Texas Instruments. Over its dual amplifiers, it achieves a very low noise density and drives a 32Ω load at 150mW of output power. Total harmonic distortion plus noise (THD+N), a degree to which an amplifier alters a pure sinusoidal signal by adding harmonics to the fundamental signal, is ultra-low, some -119.2dB at 1KHz. This Click board™ makes the perfect solution for developing high-fidelity (Hi-Fi) headphone drivers, professional audio equipment, audio test, measurement devices, analog and digital mixing consoles, and more.

Headphone AMP 3 Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This <u>Click board™</u> 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.

health and safety management system.







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Specifications

Туре	Amplifier,Signal Processing
Applications	Can be used for the development of high-fidelity (Hi-Fi) headphone drivers, professional audio equipment, audio test, and measurement devices, analog and digital mixing consoles, and more
On-board modules	INA1620 - high-fidelity audio operational amplifier with integrated thin-film resistors and EMI filters from Texas Instruments TPS65133 - ±5V, 250mA dual output power supply from Texas Instruments
Key Features	Low power consumption, shutdown feature, short-circuit protection, 32Ω load at 150 mW, EMI filters, integrated thin resistors for configuration, two 3.5 mm audio connectors (IN and OUT), boost and buck-boost power supply onboard with positive and negative output voltage, and more
Interface	GPIO
ClickID	Yes
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

<u>mikroBUS™</u>

mikroSDK

Click board™ Catalog

Click Boards™

ClickID

Downloads

Headphone AMP 3 click example on Libstock

Headphone AMP 3 click 2D and 3D files

TPS65133 datasheet

INA1620 datasheet

Headphone AMP 3 click schematic

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