

AudioAMP 12 Click



PID: MIKROE-5796

AudioAMP 12 Click is a compact add-on board that can reproduce input signals with desired volume and power levels at sound-producing output elements. This board features the [TS2007FC](#), a filter-free class-D audio amplifier from [STMicroelectronics](#). This amplifier can drive up to 1.4W into an 8Ω load at 5V, achieving better efficiency than a typical class AB audio power amplifier. In addition, it can drive up to 2.3W but into a 4Ω load at 3V and with a 1% THD+N at maximum. This Click board™ makes the perfect solution for the development of PDAs and other various types of consumer audio equipment applications.

AudioAMP 12 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 | Amplifier |
| Applications | Can be used for the development of PDAs and other various types of consumer audio equipment applications |
| On-board modules | TS2007FC - filter-free class-D audio amplifier from STMicroelectronics |
| Key Features | Two fixed selectable gains, standby mode, low power consumption, good efficiency, differential configuration, single-ended configuration, PWM base frequency of 280KHz, thermal shutdown protection, output short-circuit protection, low pop and click noise, good SNR ratio, up to 2.3W, 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

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[AudioAMP 12 click example on Libstock](#)

[AudioAMP 12 click 2D and 3D files](#)

[TS2007FC datasheet](#)

[AudioAMP 12 click schematic](#)

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