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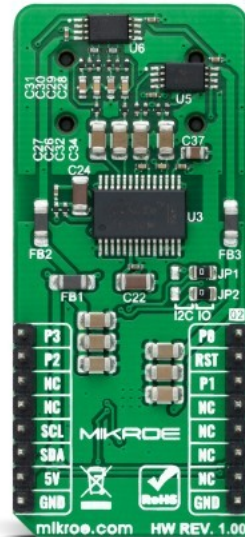www.mikroe.com

DSP Click

PID: MIKROE-4431

DSP Click is a compact add-on board that contains a multi-effects digital signal processor. This board features the V1000, a complete multi-effects audio DSP with ultra-high quality audio performance in a rapid 'time-to-market' solution from Coolaudio. The V1000 includes its integrated RAM with 16 built-in multi-effects and reverb controlled via I/O pins or I2C interface. Combined with a low-cost A/D-D/A codec like the V4220, this Click board™ provides an ultra-low cost FX solution. This Click board™ is suitable for applications as a standalone audio player, PC accessories, and Hi-Tech toys, conventional consumer electronic devices, and many more.

DSP 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	Signal Processing
Applications	Can be used for applications as a standalone audio player, PC accessories, and Hi-Tech toys, conventional consumer electronic devices, and many more.
On-board modules	V1000 - complete multi-effects audio DSP with ultra-high quality audio performance in a rapid 'time-to-market' solution from Coolaudio V4220 - 24-bit stereo codes from Coolaudio
Key Features	Low power consumption, built-in reverb and multi-effects, ultra-high quality audio performance, optimized for digital signal processing, in combination with V4220 provides an ultra-low-cost FX solution, and more.
Interface	GPIO,I2C
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

DSP click 2D and 3D files

RC4580 datasheet

V4220 datasheet

V1000 datasheet

TPS65131 datasheet

DSP click schematic

DSP click example on Libstock