

## SpeakUp 3 Click



PID: MIKROE-5420

**SpeakUP 3 Click** is a compact add-on board providing an offline speech recognition solution. This board features the VC-02, a low-cost pure offline speech recognition module developed by Ai-Thinker Technology. The VC-02 module uses an integrated voice chip US516P6 based on a 32-bit RSIC architecture core, a DSP instruction set for signal processing and speech recognition, an FPU arithmetic unit, and an FFT accelerator. The VC-02 supports offline identification of 150 local instructions, RTOS lightweight system, firmware update feature, as well as the selection of the communication method with the module. This Click board™ provides customers with offline speech recognition suitable for all kinds of smart small household appliances, toys, lamps, and other products that need voice control.

SpeakUP 3 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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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	Speech recognition
Applications	Can be used for offline speech recognition suitable for all kinds of smart small household appliances, toys, lamps, and other products that need voice control
On-board modules	VC-02 - offline voice recognition AI module from Ai-Thinker Technology
Key Features	Pure offline speech recognition module, high reliability, robust versatility, widely applied to smart home, offline identification of 150 local instructions, RTOS lightweight system, selectable communication interface, low power consumption, and more
Interface	I2C,SPI,UART
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[SpeakUp 3 click example on Libstock](#)

[VC-02 datasheet](#)

[SpeakUp 3 click 2D and 3D files](#)

[SpeakUp 3 click schematic](#)

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