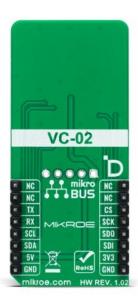


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SpeakUp 3 Click





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 $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ 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.







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Specifications

Туре	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 Al 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 szstem, 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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