



vicCONTROL go kit

Development Kit for Voice Control

The vicCONTROL go kit allows you to configure and test voice control both locally and individually in a short amount of time.

The kit consists of a development platform and the vicCONTROL Designer software, which enables the configuration of the speech recogniser and the sequence control. The result is a powerful, speaker-independent speech recognition with audio output. Your devices can be controlled with 10 digital inputs and 10 digital outputs each. Alternatively, the configurable serial port is available for communication with your device.

Once you have configured your individual voice control, you can easily transfer it to the more compact vicCONTROL go stamp and integrate it into your target product.

PRODUCT FEATURES

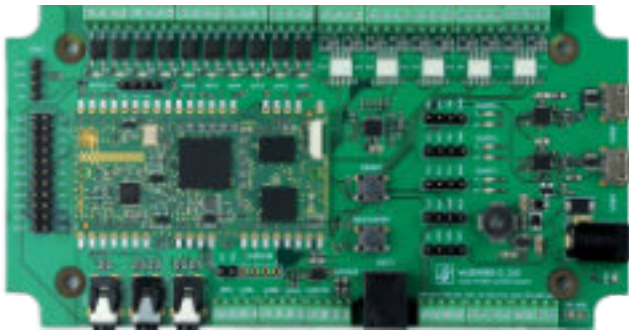
- Development kit for voice control of technical devices
- Software vicCONTROL Designer: Graphical configuration tool
- Flexible speaker-independent vocabulary
- Minimal integration effort
- Usable with (DECT) Headset or hands-free equipment
- Excellent robustness even in noisy environments
- Configurable sequence control
- Available in 30 national languages
- Acoustic feedback
- Digital inputs and outputs can be controlled via speech dialog
- Adaptable serial interfaces

APPLICATIONS

- Intelligent home automation
- Machine and device control
- Geriatric care and rehabilitation technology
- Fast media access
- Interaction with consumer devices
- Touch-free operation of devices in poorly accessible or sterile environments

HARDWARE

- Processor: Blackfin ADSP BF 512
- Dimensions: 145 x 75 mm
- Power supply: 5 V via USB, alternatively via screw terminal or coaxial power connector from 4.5 V to 28 V
- Current consumption: approx. 200 mA at 12 V
- Connection for digital and analogue microphones with pre-amplifier
- Headset and loudspeaker connector
- Audio input and output via audio jack
- Audio connection for compatible phone (DECT) headsets
- 1 W audio amplifier
- Screw terminals for 10 galvanically separated digital inputs and outputs (electronic output switches resilient up to 1.4 A)
- All signals additionally routed out on pin headers
- Digital outputs with status LED
- 2 x UART via micro USB with status LED
- Reset button, recovery button



Pict. 1: Voice control hardware vicBASE-3_5.0

vicCONTROL Designer



Pict. 2: Screenshot vicCONTROL Designer

- Configuration of speech recogniser and sequence control
- Preview of created configuration
- Allows the permanent transfer of configurations to the customer's hardware platform or vicCONTROL go stamp
- Enables testing of configurations

OPERATING PRINCIPLES

- Recognition of single command words and flexible phrases (NLU suitable)
- Qualitative rating of recognition results
- Optional feedback for uncertain speech recognition results
- Acoustic feedback via configurable audio prompts (8 slots of 4 sec each)
- Configurable sequence control
- User defined assignment of: speech commands, digital in- and outputs, time-controlled status changes
- Configurable serial outputs
- Firmware and software are updateable

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