

Development Kit for Voice Control



The development kit vicCONTROL DSP 3 offers you the possibility to individually configure and test a local voice control in a short time. The kit consists of a development platform and the vicCONTROL Designer software. This includes a freely configurable sequence control for the combination of powerful speaker-independent speech recognition with audio output as well as digital inputs and outputs. As soon as you have configured your individual voice control, you can transfer it to our extension board vicCONTROL DSP 3 stamp for technical devices.

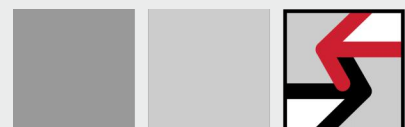
Product Features

- Development kit for the voice control of technical devices
- Flexible, speaker-independent vocabulary
- Minimal integration effort
- Used with headset or hands-free microphones
- Excellent robustness even in noisy environments
- Configurable sequence control
- Available in 30 national languages
- Graphic configuration tool vicCONTROL Designer Basic
- Acoustic feedback
- Freely programmable digital inputs, outputs and buttons
- Serial protocol

Applications

- Intelligent home automation
- Machine and device control
- Geriatric care and rehabilitation technology
- Fast media access
- Interaction with consumer devices

vicCONTROL DSP 3
Configuring Voice Dialogs Individually.



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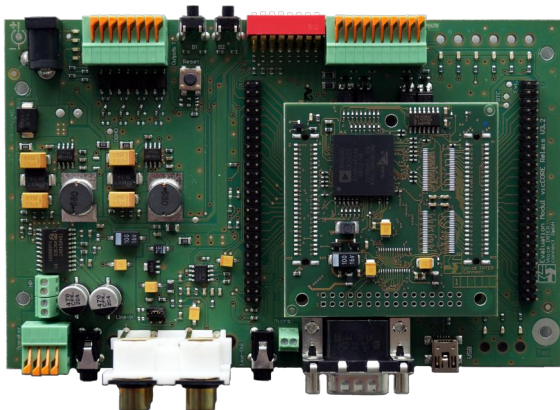
Operating Principle and Components

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 (24 Slots a 4 sec)
- Configurable sequence control
- User defined assignment of :
 - Speech commands
 - Digital in- and outputs
 - Buttons
 - Time-controlled state changes
- Configurable serial outputs

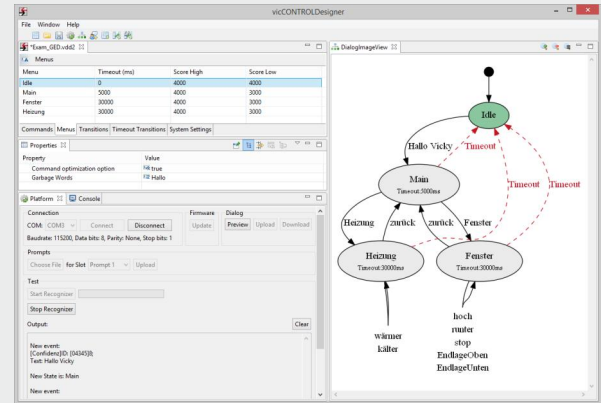
Hardware

- Processor: Blackfin ADSP BF 534
- Dimensions: 160 x 100 mm
- Power supply: 12 - 24 V with reverse polarity protection
- Current consumption: approx. 200 mA (12 V)
- Microphone connector with adaptable pre-amplifier
- Headset and loudspeaker connector
- Audio input and output via cinch connectors (stereo)
- RS232 level converter with 9-pole sub-D-connector
- USB at a 5-pole mini-USB jack
- 8-pole cutting terminal for 4 digital outputs via relays
- 10-pole cutting terminal for 4 digital inputs via opto-coupler (power supply included)
- 1 x Reset-Button
- 2 x Keys
- 13 x status LED for level indication
- External power supply



Pict. 2.: Voice control hardware vicCORE module system (VCMS)

vicCONTROL Designer



Pict. 1.: Screenshot vicCONTROL Designer

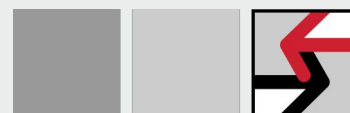
- Configuration of speech recognizer and sequence control
- Allows preview of created configuration
- Allows permanent transmission of configurations to the customer's hardware platform or vicCONTROL DSP 3 stamp
- Allows testing of configurations

Specials

- Firmware and software can be updated
- Modular system consisting of evaluation and speech recognition board (60 x 60 mm), which also can be operated independently

vicCONTROL DSP 3

Order number: 12001001-30



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