



SoC Module for Voice Control

vicCONTROL go stamp is an extension module, which can be used to upgrade your product with a voice control. Unlike Amazon Alexa or Google Home, local speech recognition takes place without an internet connection. In this way, your speech data remains protected and is not stored or shared across central servers. Also, voice control in the private area (e.g. simple building automation functions) is safer.

The reasonably priced SoC module is optimally suited for series production and is available in the long term. For a fast and easy integration in your application as well as evaluation purposes, we provide you with the compatible development kit vicCONTROL go kit.

Product Features

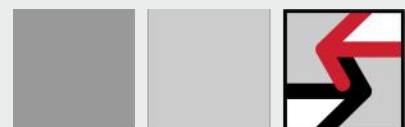
- Voice control for technical devices
- Small, low-cost SoC module, designed for serial production
- Flexible, speaker-independent vocabulary
- Currently available in 30 national languages
- Excellent robustness even in noisy environments
- Acoustic feedback
- Digital inputs and outputs can be controlled via speech dialog
- Serial protocol
- Wake word functionality

Applications

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

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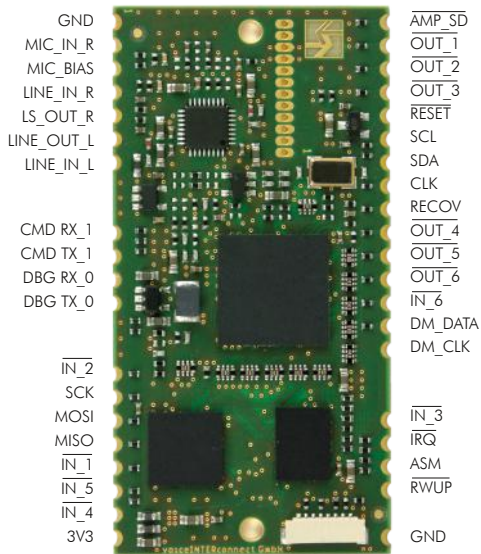
Voice Control for OEM-Products.



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Technical Data

Edge Contacts



Pin	Name	Description
01	GND	Ground for audio connectors
02	MIC_IN_R	Microphone input (+) for condenser microphone (cm)
03	MIC_BIAS	Bias voltage for cm
04	LINE_IN_R	Not used
05	LINE_OUT_R	Audio signal output of prompts
06	LINE_OUT_L	Audio signal output of current input signal
07	LINE_IN_L	Optional microphone input
10-11	RX_1, TX_1	UART-1-RX- and UART-1-TX-signal command interfaces
12-13	RX_0, TX_0	UART-0-RX- and UART-0-TX-signal debug interfaces
16	IN_2	Input 2
17	SCK	Internal usage
18	MOSI	Internal usage
19	MISO	Internal usage
20-22	IN_1/5/4	Inputs 1/5/4
23	3V3	Supply voltage (+)
24	GND	Supply voltage (ground)
26-27	IRQ, ASM	Internal usage
28	RWUP	Internal usage
29	IN_3	Input 3
32	DM_CLK	Internal usage
33	DATA	Internal usage
34	IN_6	Input 6
35-37	OUT_6/5/4	Outputs 6/5/4
38	RECOV	Recovery configuration
39-41	CLK, SDA, SCL	Not used
42	RESET	Hardware reset
43-45	OUT_3 / 2 / 1	Outputs 3/2/1
46	AMP_SD	Indicates audio output activity

General Data

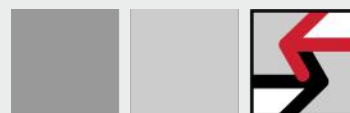
Power supply:	3.3 VDC
Current consumption:	Approx. 200 mA
Connectors:	39 edgeboard contacts or 12-pin ribbon cable
Audio signal level:	0 dBV (=1 V _{RMS})
Microphone amplifier:	-12 dB ... +55 dB
Operating temperature:	-40 °C ... +85 °C
Dimensions:	60 x 30 x 4 mm (L x W x H)
Form factor:	Single-sided SoC module
Weight:	Approx. 10 g

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 s each)
- Configurable sequence control
- User defined assignment of:
 - Speech commands
 - Digital in- and outputs
 - Time-controlled state changes
 - Configurable serial outputs
- Firmware and software are updatable

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