



vicCOM 2

SoC-Module for Hands-free Talking

Intercom systems and hands-free devices are used in many applications. Despite background noise and interference, they must provide natural, crystal-clear, full-duplex communication.

Thanks to patented algorithms for acoustic echo cancellation (AEC) and noise reduction (NR), our vicCOM products provide excellent audio quality and speech intelligibility at the highest level - even in the most challenging environments.

The two new features "Automatic Volume Control" (AVC) for automatic adjustment of the playback volume to the ambient noise level and "Volume Fading" for a smooth transition when the volume changes, you now have additional individually configurable parameters.

The small vicCOM 2 audio processing module can be integrated as a component in customised layouts or simply retrofitted to existing products via the bar line.

PRODUCT FEATURES

- Audio processing module for hands-free communication in HD audio
- Assembly board with edge contacts
- Acoustic echo cancellation (AEC)
- Noise reduction (NR)
- Feedback Canceller (FBC)
- Intelligent loss control
- Signal conditioning for microphone and loudspeaker signals
- Automatic volume control (AVC)
- Volume fading
- Parameters can be set during operation
- Recording and playback of audio files
- Software and parameters can be updated

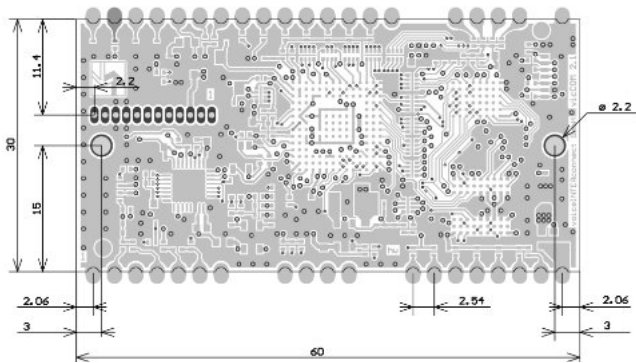
APPLICATIONS

- Intercom and emergency call systems
- Kiosk systems with communication functionality
- Building and industrial communication
- Hands-free-kits for cars, commercial and emergency vehicles
- Conference systems
- Counter intercom station
- Hands-free kits in emergency phones

TECHNICAL DATA

Power supply:	3.3 VDC
Current consumption:	Approx. 40 mA (max. 90 mA)
Connectors:	39 edgeboard contacts or 12-pin ribbon cable
Audio signal level:	0 dBV (= 1 V _{RMS})
Microphone amplifier:	-12 dB ... +55 dB
Flash memory:	8 MB
SDRAM:	16 MB (max. 128 MB)
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

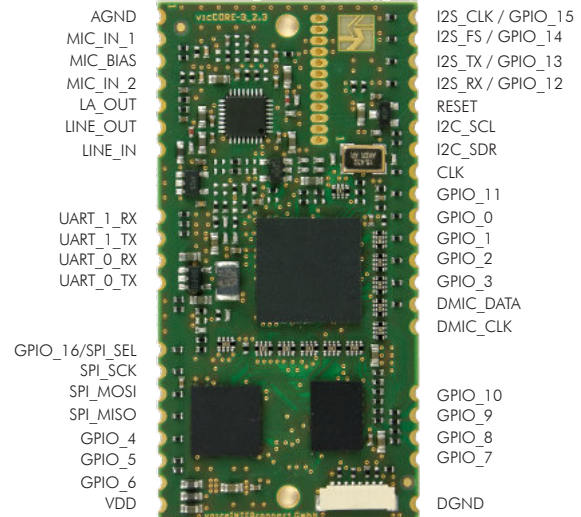
DIMENSIONS



RIBBON CABLE CONNECTORS

Pin	Name	Description
1-2	I ² C	I ² C interface
3	VDD	Power supply
4	LINE_IN	Audio input from target device
5	LINE_OUT	Audio output to target device
6	LS_OUT	Audio output to loudspeaker
7-8	UART_1	Interface for control
9	DGND	Ground for power supply
10	AGND	Analogue audio ground
11	MIC_BIAS	Microphone bias voltage
12	MIC_IN_1	Microphone input

EDGEBOARD CONNECTORS



Pin	Name	Description
1	AGND	Analogue audio ground
2	MIC_IN1	Microphone input
3	MIC_BIAS	Microphone bias voltage
4	MIC_IN2	Optional microphone input
5	LS_OUT	Audio output to loudspeaker
6	LINE_OUT	Audio output to target device
7	LINE_IN	Audio input to target device
8-9	UART_1	Interface for control
10-11	UART_0	Alternative interface
12-15	SPI	SPI interface
16-18	GPIO	Programmable in- and outputs
19	VDD	Power supply
20	DGND	Ground for power supply
21-24	GPIO	Programmable in- and outputs
25-26	DMIC	Digital microphones (up to 2)
27-31	GPIO	Programmable in- and outputs
32	CLK	Quartz clock
33-34	I ² C	I ² C interface
35	RESET	RESET input
36-39	I ² S	I ² S interface

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