

Item no.: BPI-MICROSEMI

BPI MICROSEMI - Banana PI, Raspberry PI - Speech Recognition Module

from 164,03 EUR

Item no.: BPI-MICROSEMI shipping weight: 0.10 kg Manufacturer: BPI



Product Description

BPI-Al-Voice (Microsemi) - Speech Recognition ModuleBanana Pi BPI-Al-Voice (Microsemi) is a module for speech recognition. Now, you can use it on Raspberry Pi with Amazon

Designed for world-class voice front-end applications, Microsemis new ZL38063 audio processor features the company's AcuEdge(TM) technology. This innovative technology is a set of highly-complex and integrated algorithms that significantly improves automatic speech recognition (ASR) for both embedded and cloud-based ASR solutions. The ZL38063 delivers audio enhancements that perform noise reduction and smart automatic gain control (AGC), enabling speech recognition at distance in noisy, real-world conditions. Key Features:

- Supports 2 or 3 microphones linear or triangular array placement for enhanced audio pick up
- Smart automatic gain control (AGC)
- High-quality stereo acoustic echo canceller for barge-in and full duplex audio
- Fully configurable and scalable solution delivering a two microphone configuration for both 180° and 360° audio pick-up
 Enhanced beam forming technology to enhance audio pick-up in adverse conditions, in presence of noise and outside sound sources
 2-way full duplex voice communication
- Turnkey designs available as well as all appropriate drivers and documentation, along with worldwide support

BPI-AI-Voice External Interfaces

- Raspberry Pi 3/Banana Pi HeaderP2: I2S port; SPI; 8 GPIO
- Audio Header: JMMA1: digital microphones; Analog out; 3 GPIO
 SPI Flash Devices: U2: optional SPI flash component used to store ZL38063 firmware
 USB J3: Optional USB power and debug port

- Debug Headers: JAIB2/2: auto tuning headers
 Digital Microphone Headers: JM1–4: optional header for off-board microphones

Audio Characteristics

- Digital Microphones: 4 on-board digital microphones (AKU441): supports a 2 microphone configuration for 180° and 360° audio pick-up
 Analog Output: J1: 2 x 2.65 Low cost class D audio amplifier (NCP2820)

Connectors

- Stereo 3.5 mm male-to-male audio cable: P1: audio output
 MicroUSB Cable: J3: optional USB power and debug port

Specifications

Scan this QR code to view the product

All details, up-to-date prices and availability

