IoT Audio HMI Voice Control Interface

Innovation

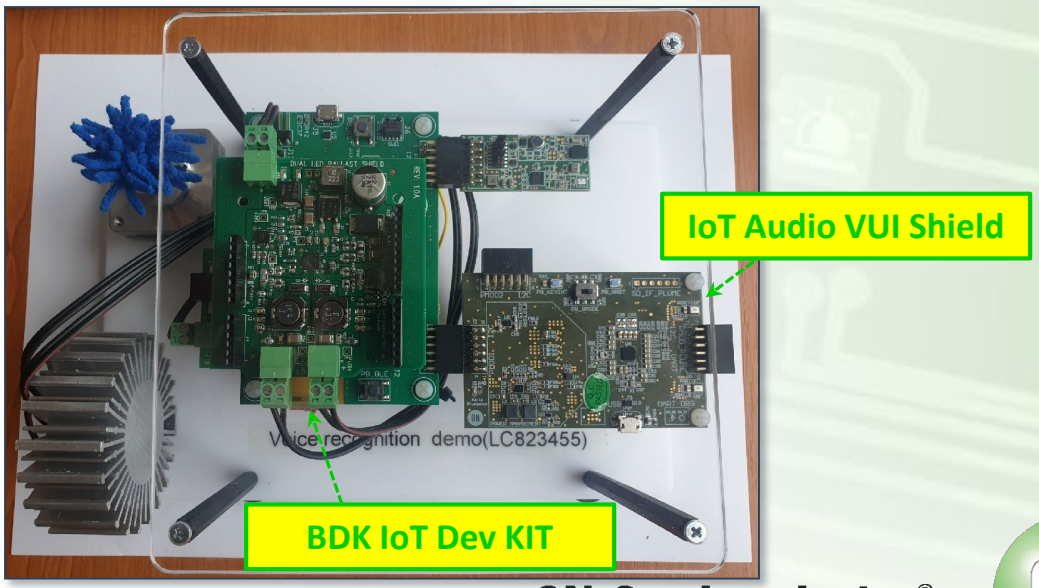
The LC823455 Audio/Voice Interface Board Shield is an evaluation board (EVB) intended for the ONSEMI BDK KIT for the Internet of Things (IoT), incorporating an offline Voice User Interface from Sensory running on the LC823455 32-bit & 192kHz audio processing System on Chip (SoC).

The demo supports out-of-the-box Home Automation commands set such as ‘Turn On The Light’, ‘What´s the temperature?’ or ‘Close the garage’. The shield is an extension to the BDK baseboard and compatible with the Dual LED Ballast (D-LED-B-GEVK), Stepper Motor (D-STPR-GEVK) and Multi Sensor (MULTI-SENSE-GEVB) shields for motor and light control. The system also connects with the RSL10 Sense & Control mobile app to display the temperature when requested, featuring the RSL10, the industry's lowest power Bluetooth 5 radio SoC on board. Examples and use cases are provided in the CMSIS pack.

Value Advantage

- Ultra Low Power Consumption and extended battery life
- LC823455 with an ARM® Cortex®-M3 32bit Dual Processor + DSP
- Truly Hands Free™ Voice User Interface (VUI) for IoT Smart Control
- Up to four input digital microphone MEMS capable
- Several DSP algorithms including Beam forming, ANC, CODECS, …

Current Proposition



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