Bluetooth® Module

Rayson

BC08 Class2 Stereo ROM Module

BTM-640

This is a Bluetooth Class2 (max 4dBm) module. It is based on CSR 8640 ROM version chip set which supports Bluetooth V3.0 standard. The Embedded Kalimba DSP Co-Processor supports the advanced features such as echo cancellation, noise reduction, and stereo audio (A2DP profile) communications. Advanced user interface design allows multipoint HFP or A2DP connections and secures simple pairing. The integrated stereo DAC provide high quality audio performance with SNR up to 95dB. Support digital audio bus such as PCM, I_2S or SPDIF. And the on chip Switched-Mode Regulator and Li-ion battery charger eliminate the needs of external components and costs. The true single chip solution for audio applications. Internal ROM, serial flash and EEPROM enable the flexibilities of the module to meet various kinds of applications.

Features

- The module is a Max.4dBm(Class2) module.
- Fully Qualified Bluetooth v3.0.
- Integrated Switched-Mode Regulator.
- Integrated Battery Charger.
- Embedded Kalimba DSP Co-Processor.
- Integrated 16-bit Stereo Audio CODEC 93dB SNR for DAC.
- CSR's latest CVC technology for narrowband and wideband voice connections including wind noise reduction.
- Wideband speech supported by HFP v1.6 Profile and mSBC codec.
- Multipoint HFP connection to 2 phones for voice.
- Multipoint A2DP connection enables a headset(A2DP) connection to 2 A2DP source device for music playback.
- SBC, MP3, AAC, Faststream support.
- HSP v1.2/ HFP v1.6/ A2DP v1.2/ AVRCP v1.4
- Voice prompts (SPI Flash)
- RoHS compliant.
- Small outline. 13.4 x13.4 x2.7mm(8M SPI Flash)
  13.4 x13.4 x1.9mm(64K EEPROM)

Outline



Applications

- Stereo Wireless Headsets.
- Wired stereo headsets and headphones.
- Portable stereo speakers.

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