

Bluetooth® Module

BC05-MM Class1 Stereo Module

BTM-620

This is a Bluetooth Class1 module which can provide 50% wider coverage than regular class2 module. It is based on CSR Bluecore 5 (BC5)-MM chip set and on board RF power amplifier which can provide maximum output power up to 17dBm. The module can support Bluetooth V2.1+EDR system. The Embedded Kalimba DSP Co-Processor supports the advanced features such as echo cancellation, noise reduction and stereo audio (A2DP profile) communications. The integrated stereo DAC provide high quality audio performance with SNR up to 95dB. Support digital audio bus such as PCM, I²S or SPDIF. And the on chip Switched-Mode Regulator and Li-ion battery charger eliminate the needs of external components and costs.

The host Interfaces include USB and UART, that are programmable for data communication, module control or firmware upgrade. The powerful and flexible design allows the module to support HSP/HFP/A2DP/AVRCP SPP, PBAP, all kinds of Bluetooth profiles.

Features

- The module is a Max.18dBm(Class 1) module.
- Bluetooth Standard v2.1+EDR.
- Integrated Switched-Mode Regulator.
- Integrated Battery Charger.
- Embedded Kalimba DSP Co-Processor.
- Integrated 16-bit Stereo Audio CODEC 95dB SNR for DAC.
- Enhanced Audibility and Noise Cancellation.
- Integrated with 8M bits flash memory.
- Support Host Interface: USB or UART.
- Support Digital Audio Bus : PCM, I²S or SPDIF.
- HSP/HFP/A2DP/AVRCP profiles support.
- RoHS compliant.
- Small outline. 21 x 16 x 2.2 mm.

Outline



Applications

- High Quality Stereo Wireless Headsets.
- High Quality Mono Headsets.
- Wireless Speakers.
- VOIP Handsets.
- Analogue and USB Multimedia Dongles.
- Bluetooth-Enabled Automotive Wireless Gateways.