Bluetooth ® Module

Rayson

CSR8670 Class2 Stereo Flash Module

BTM-770

This is a Bluetooth Class2 (max 4dBm) dual mode module. It is based on the most advanced CSR8670 chip set and the latest ADK, it can support Bluetooth V4.0 standard. The new RISC MCU core and 80MIPS Kalimba DSP Co-Processor enable not the existing Bluetooth multi-media function such as echo cancellation, noise reduction and stereo audio (A2DP audio) communications but also extended features for future. The highly integrated hardware includes high quality stereo DAC, high current (200mA) battery charger and, switch regulator. This makes the system design easier and save costs of external components. 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. Furthermore, the APTX, AAC, MP3 HIFI audio streaming are also supported.

Features

- The module is a Max.4dBm(Class2) module.
- Fully Qualified Bluetooth v4.0.
- Integrated Switched-Mode Regulator.
- Integrated Battery Charger.
- 16Mb internal flash memory (64-bit wide,45ns)
- Embedded Kalimba DSP Co-Processor.
- Integrated 16-bit Stereo Audio CODEC.
- Support for CSR's latest CVC technology for narrowband and wideband voice connections including wind noise reduction.
- Support Host Interface: USB2.0 or UART.
- SBC, MP3, AAC, Faststream, APTX codec support.
- APTX low-latency including support for SCMS-T
- HSP / HFP / A2DP / AVRCP/ PBAP / SPP / MAP
- BLE Limited HID support (remote control functionality)
- BLE battery service profile
- RoHS compliant.
- Small outline: 12.4 x12.4 x1.8mm

Outline

Applications

- Stereo Wireless Headsets.
- Wired or wireless speakers and headphones.
- Smart remote controllers.
- TVs
- Audio adaptors