

Technical description(GMHSBTCS4)

Radio

Use CSR Bluecore5-Multimedia single chip radio and baseband IC for Bluetooth 2.4G systems.

Operation with common Tx/Rx terminals simplifies external circuit.

Bluetooth v2.0+EDR specification compliant

Transmitter

Up to +6dBm RF transmit power with level control from the on-chip 6-bit DAC over a dynamic range greater than 30dB.(Note: +6dBm RF transmit power is CSR chip SPEC , this case is Bluetooth class 1 and output power always under +6dBm)

Receiver

Integrated channel filters

Digital demodulator for improved sensitivity and co-channel rejection

Fast AGC for enhanced dynamic range.

Synthesizer

Full integrated synthesizer requires no external VCO varactor diode or resonator.

Baseband and software

Internal 8Mbit flash for complete Bluetooth Stereo solution and applications

32Kbyte on-chip RAM allows full speed Bluetooth data transfer, mixed voice and data,

BlueCore3-Multimedia is supplied with Bluetooth v1.2 compliant stack firmware ,which runs on the internal RISC microcontroller

Function description

Bluetooth qualified Specification v2.0 compliant

Supports A2DP.AVRCP.Headset.Handfree profile(this case)

Powered from 5V Adapter.

Use Bluetooth RF interface communicate with other Bluetooth device(AV profile was needed).

Internal Kalimba DSP allowing signal processing functions to be performed on CODEC data in order to enhance audio applications.