LM745 Bluetooth Multimedia Module
Class 2 Module with CSR BC05 With Antenna On-Board

1   General Description

LM745 is LM Technologies Ltd Class 2 Bluetooth Multimedia module with external antenna. This module is a CSR Bluecore 5- Multimedia External (BC05 MM-Ext) chip based surface mount module available with LM Firmware 2.51.

LM firmware 2.51 includes Bluetooth Profiles:
A2DP, HFP, AVRCP,SPP, PBAP
This module is available with Bluetooth 2.1+EDR compliant firmware.

2   Features

- The module is a Max.4dBm(Class2) module.
- Fully Qualified Bluetooth v3.0 system.
- 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 16M bits flash memory.
- Support Host Interface: USB or UART.
- Support Digital Audio Bus : PCM, I^{2}C or SPDIF.

- Integrated chip antenna (or W.FL connector)
- RoHS compliant.
- Small outline. 16.0 x 23.9 x 2.6 mm.

- HSP/HFP/A2DP/AVRCP/ SPP (5) profiles support.

- Development kit (LM556) for LM740 available for development

3   Applications

- High Quality Stereo Wireless Headsets
- High Quality Mono Headsets
- Vehicle Infotainment Systems
- Wireless Speakers
- VoIP Handsets
- Bluetooth Enabled Automotive Wireless Gateways
- Handsfree kits