

EGIGATEK STM8645 Brief

(CSR8645 based Bluetooth 4.0 stereo Module)

1. Description

STM8645 BT4.0 stereo module is a perfect solution for enhanced audio applications, such as stereo headphones. It can be connected with any bluetooth devices in an operating range. It is slim and light so the designers can have better flexibilities for the product shapes.

STM8645 BT4.0 stereo module supports HSP, HFP, A2DP, AVRCP profiles. It integrates RF Baseband controller, antenna,... etc. and provide UART interface, programmable I/O, stereo speaker output, microphone input,... etc.

2. Features

- Small overall dimension(23mm x 15mm x 1.9mm)
- Bluetooth Specification V4.0
- Class 1, Class 2 and Class 3 support
- Physical connection as SMD type
- DSP Co-Processor 16-bit Internal Stereo CODEC for DAC.
- High quality stereo audio: Supported sample rates of 8,11.025,16,22.05,32,44.1,48 and 96kHz(DAC only)
- Music Enhancements: aptX, SBC, MP3, AAC and Faststream decoder
- Support HSP, HFP, A2DP, AVRCP profile
- CSR's proximity pairing and CSR's proximity connection
- Multipoint support for HFP connection to 2 handsets for voice
- Multipoint support for A2DP connection to 2 A2DP source for music palyback
- Compatible with CSR cVc software echo cancellation solution
- Built-in RF combo filter, Integrated 26M Crystal
- No radio signal interference, support for 802.11 co-existence

3. Application

- High quality stereo bluetooth headsets
- High quality wired stereo headset and headphones

- Bluetooth speakers

4. Physical Characteristic

