CLASS 2 BLUETOOTH® MODULE - F2M03AC2

FEATURES

- Complete Bluetooth system including antenna
- Includes complete audio codec
- Available with complete Bluetooth software stack
- Headset functionality available
- Wireless UART functionality without extra protocol
- Serial interface, 8 digital and 2 analog I/O
- Analog and digital (PCM) voice interface for up to 3 simultaneous voice channels
- Nominal 20 m range, transmit Power up to +4 dBm
- Full Bluetooth data rate over UART and USB
- 4 low power modes
- Surface mountable, physical size: 24x13 mm
- Bluetooth v1.1 compliant

APPLICATIONS

Prototyping and volume production of:

- Wireless headsets
- Audio applications
- Industrial and domestic appliances
- Stand alone sensors
- Embedded systems
- Mobile phones



GENERAL DESCRIPTION

This module is a Class 2 surface mountable Bluetooth system. The module includes antenna and an audio codec for conversion between analog and digital voice.

It provides a fully compliant device for data and voice communications. The physical interfaces to a host (UART and USB) can support full Bluetooth data rate of 723.2kbps. An analog voice interface and a PCM synchronous bi-directional digital audio interface are available. There are also digital and analog I/O and I2C interfaces.

The module is available with a number of different firmware versions: The Wireless UART firmware implements the Serial Port Profile (SPP) with an easy to use command interface. All information sent to the serial interface is transmitted transparently via Bluetooth to the connected remote device.

Other firmware versions are: Headset, HCI, RFCOMM and the possibility to get customized standalone applications implemented on the module.

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