CLASS 2 BLUETOOTH® MODULE - F2M03C2

FEATURES

- Available with complete Bluetooth software stack

- Wireless UART functionality without extra protocol

- Headset functionality available

- Serial interface, 8 digital and 2 analog I/O

- PCM interface for up to 3 simultaneous voice channels

- Nominal 20 m range

- Transmit power up to +4 dBm (Bluetooth Class2)

- 4 low power modes

- Piconet and Scatternet capability, support for up to seven slaves

- Physical size: 25x14 mm

- Surface mountable

- Bluetooth v1.1 compliant

APPLICATIONS

Prototyping and volume production of:

- Industrial and domestic appliances

- Stand alone sensors

- Embedded systems

- Cordless headsets

- Computer peripherals (Mice, Keyboards, USB dongles etc)

- Handheld, laptop and desktop computers

- Mobile phones

GENERAL DESCRIPTION

This module is a Class 2 Bluetooth device; surface mountable in an automatic mounting line or manually for prototyping. It provides a fully Bluetooth compliant device for data and voice communications. The interfaces to a host (UART and USB) can support full Bluetooth data rate of 723.2kbps. A 13-bit PCM, 8 k samples/s, synchronous bidirectional audio interface is available. Digital and analog I/O and I2C interface are supported by the module.

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.

Bluetooth®