

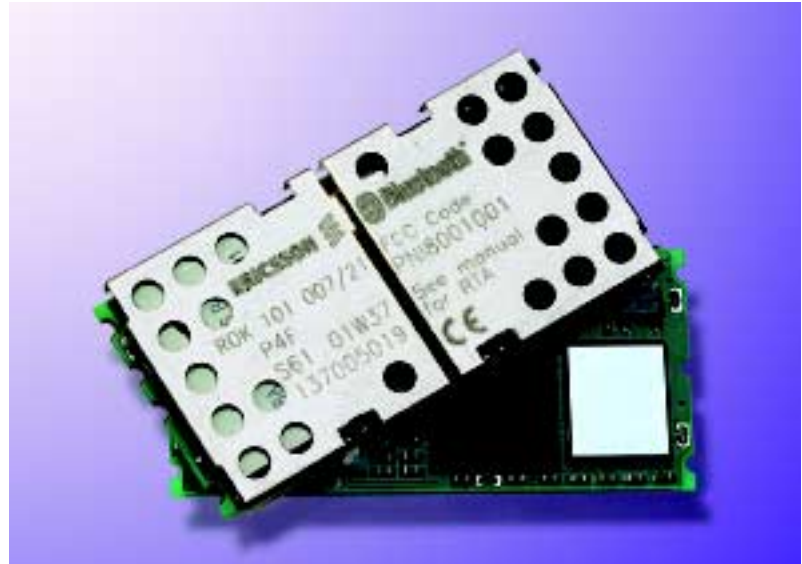
Bluetooth™ Multi Chip Module

Key Features

- Complete Bluetooth function
- Output power class 2
- Qualified for Bluetooth 1.1
- FCC and ETSI type approved
- Internal crystal oscillator
- Built-in RF shield
- Supports Bluetooth protocol layers up to HCI
- Point to Multipoint

Suggested Applications

- Computers and peripherals
- Handheld devices and accessories
- Access points



Description

The Bluetooth module from Ericsson Microelectronics is a complete solution for fast implementation, cutting your time-to-market. It is a short-range, compact and low-cost radio/baseband module that can be implemented in any kind of electronic device.

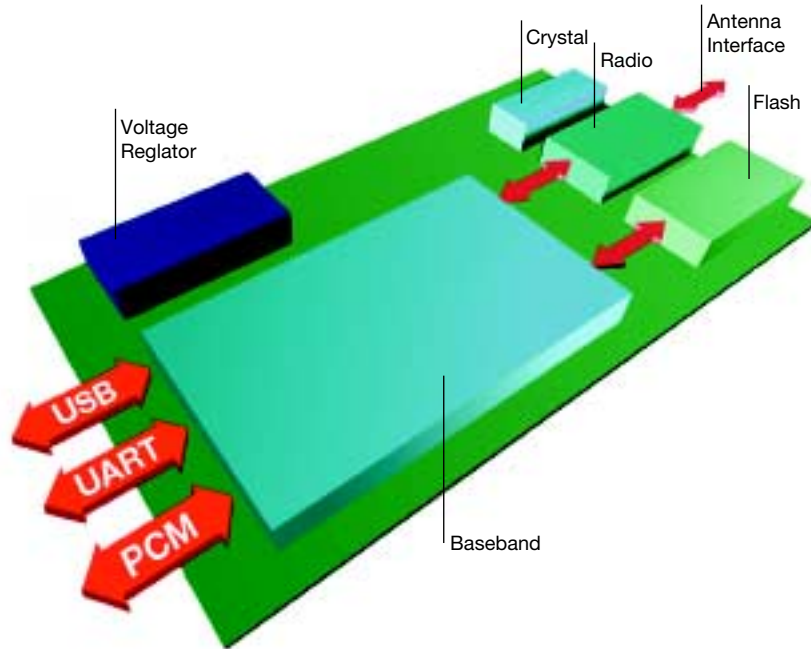
The module includes a baseband processor, Bluetooth Radio, application and antenna interfaces and supporting circuitry, together with basic Bluetooth software for signalling at HCI (Host Control Interface) level. As the module is a generic product, it can be used for many different types of application that require a

Bluetooth capability. The module supports both voice and data transmission.

Communication is carried out using the module's built-in full-speed USB, UART or PCM interface. The module is a power class 2 Bluetooth device, and is qualified for version 1.1 of the Bluetooth specification. Since it is also type-approved for global use (including FCC/ETSI) on delivery you can be sure that cost and time for qualification and type approval is kept to a minimum.

The BLUETOOTH trademarks are owned by Bluetooth SIG, Inc., U.S.A.

Block diagram



External interfaces to the module

There are three ways of communicating from the host to the module:
1. USB, 2. UART and 3. PCM.

USB and UART communication is achieved using HCI.

1. USB

USB 2.0 compliant.
The module is a USB full-speed class device (12 Mbps) and has the full functionality of a USB slave.

2. UART

Signals supported are Rx, Tx, RTS and CTS.
The module is DCE, Data Circuit-terminal Equipment. The maximum UART speed is 460.8 kbs.

3. PCM

The PCM data can be: Linear PCM 13-16 bit, μ -law 8 bit, A-law 8 bit. The PCM sync is 8 kHz and the PCM clock 200 kHz – 2 MHz.

Antenna interface

50 Ω Bluetooth ISM band antenna (2.4 - 2.5 GHz).

Software

The module includes software for communication at HCI-level. Included layers are BB (Base Band), LM (Link Manager) and HCI. Additional software (Bluetooth layers L2CAP and RFCOMM) is available separately in a generic form, i.e. to be adapted to various operating systems.

Module size

The dimensions of the Bluetooth module are:
Length = 33 mm Width = 17 mm Height = 3 mm

Ordering information

This Bluetooth module from Ericsson Microelectronics may be ordered as: ROK 101 007.

Please note that this is to be considered brief information only.
For more detailed information please refer to separate data sheet.

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The latest and most complete information
can be found on our website.

Product Brief

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