



BT3010 Bluetooth™ Module

Product Description

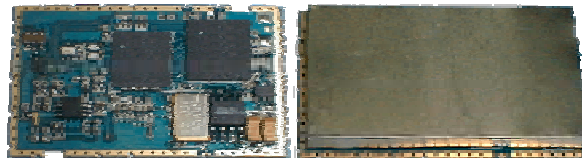
BT3010 Bluetooth™ Module is a complete turnkey solution, a highly integrated module (including Bluetooth™ radio, baseband, host interfaces, supporting circuitry, and software protocol stacks up to HCI), for fast implementation in various applications to enable electronic devices to communicate wirelessly with other Bluetooth™-enabled devices.

BT3010 Bluetooth™ Module is compact in size, low in cost, and fast in implementation. It is a true saver for manufacturers to provide time-to-market products. With three different types of interface, (USB/UART/PCM), the module can be used in applications such as Notebook PCs & accessories, PDA, Access Points, Headphones, PC peripherals, etc.

The module supports both voice and data transmission and is fully compliant with Bluetooth™ specification version 1.1 standard, class1, 2, & 3 operations, which allows up to 20 dBm output power, supporting operation range up to 100 meters.

BT3010 Bluetooth™ Module is available in industry standard packages.

* BLUETOOTH is a trademark owned by Telefonaktiebolaget L M Ericsson, Sweden.



Key Features

- Bluetooth Specification V.1.1 compliant
- Supports USB/UART/PCM (Pulse Code Modulation) interface.
- Bluetooth Protocol layers support up to HCI
- 0 to 20dBm Output Power (Support Class 1, 2, 3)
- Optimized Link Manager and Control.

Applications

- Personal Computers accessories
- Laptop PCs and accessories
- Handheld devices and accessories
- Internet access points
- Mobile phone accessories



©2001 TECOM CO., LTD. All rights reserved. TECOM is registered trademark of TECOM CO., LTD. All other trademarks are held by their respective companies. TECOM reserves the right to make changes to product specifications without notices.



TECOM CO.,LTD
23 R&D Road 2,
Science-Based Industrial Park
Hsin-Chu, Taiwan, R.O.C.
Tel : 886-3-5775141
Fax : 886-3-5776855
E-mail : market@tecom.com.tw
Site : <http://www.tecom.com.tw>

Specifications

User Interface

- **USB:** USB 1.1 compliant
- **PCM:** Pulse Code Modulation
- **UART:** 16450 industry standard compliant.

Software

- Bluetooth HCI interface supports USB (1.1)

Operating Frequency Range

- 2402 MHz to 2480 MHz

Modulation

- GMSK

Transmission Data Rate

- Downstream: 723 Kbps
- Upstream: 57 Kbps
- Sync: 400Kbps

Rx Sensitivity

- -80 dB min

Output Power

- Class 1: 20dBm max
- Class 2: 4dBm max
- Class 3: 0dBm max

Hopping Channel

- 79

Overall Data Rate

- 1Mbps

Antenna Interface

- 50 ohm Output impedance

Module Size

- **Length** = 38 mm
- **Width** = 22 mm
- **Height** = 4.5 mm

Block Diagram

