

## Technical description(UBTCR3C2T)

Main chipset BC03-ROM(BlueCoreTM3-ROM) features:

### Radio

- Common Tx/Rx terminals
- Bluetooth v1.2 specification compliant

### Transmitter

1dBm+/- 1 RF transmit power with level control from on-chip 6-bit DAC a dynamic range >30dB

### Receiver

- Integrated channel filters
- Digital demodulator for improved sensitivity and co-channel rejection
- RSSI(Receiver signal strength Indicator)
- AGC(Automatic Gain Control)

### Synthesizer

Full integrated synthesizer requires no external VCO varactor diode , resonator or

### Loop filter

compatible with crystals between 8 and 32 MHz or an external clock

### Auxiliary features

On-chip linear regulator, producing 1.8v output from 2.2-5.6 v input

Crystal oscillator with built-in digital trimming

### Baseband and software

internal programmed 4Mbit ROM for complete system solution

32Kbyte on-chip RAM allows full speed Bluetooth data transfer, mixed voice and data, plus full seven slave Piconet operation

- FEC(Forward error correction)
- CRC(Cyclic redundancy check)

### Physical interfaces

- SPI(serial peripheral interface)
- UART(Universal Asynchronous Receiver Transmitter)
- USB(Universal Serial Bus)
- PIO(Parallel input Output)
- PCM(Pulse Code Modulation)

## Function description

Bluetooth V1.1 and V1.2 compliant

USB 1.1 compliance

USB 2.0 compatibility

USB bus power only.

Main chip initialised by EEPROM which with configure data.

Terminal TX\_A(Transmitter output/Receiver input) and TX\_B(Same as TX\_A) form or get balanced output/input signals through BALUN and Filter to antenna.