

Technical description(UBTCR3C2T)

Main chipset BC03-ROM(BlueCore™3-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.