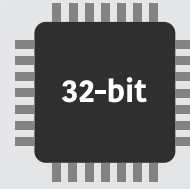# PRBMD02

Tiny BT5 module

32-bit core

Core with 2.4GHz 32-bit™ Cortex M0 core, provide a powerful processing power and a familar enviornment to users.

32-bit

Low power

Low power consumption of core chip, which consume 0.3µA at OFF mode and 1µA at Sleep mode.

Mesh connection

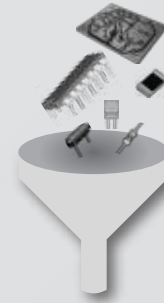Support standard mesh standard in SDK, allowing connection between each device and extend distance.

128KB **8KB** **64KB**

More memory size

128KB flash, 64K SRAM and 8K cache RAM provides high flexibility and efficiency for more applications.

Time to market

Comes with serial tunneling firmware, shorten product development engineering cycle and resource.

actual size

Tiny form factor

Dimension of PRBMD02 is just 10 x 14 mm, suitable for application with limited space

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Dimension (mm): 10 x 14 x 3
Antenna: chip antenna
Interfaces: PWM, PDM, I2C, SPI, UART, JTAG, ADC
Bluetooth: 5.1 compliant protocol stack
Core: 32bit Cortex-M0 with 2.4GHz wireless
Memory: 64KB SRAM; 128kB Flash; 8KB cache
GPIO: 19 (max), multiplexed

Firmware: serial tunneling, SDK available
Operating voltage: 1.8 – 3.6V
Current consumption: 460uA @ operate; 0.3uA @ idle
Oscillators: on board 16MHz, internal 32kHz RC, optional external 32768Hz oscillator
Tx Power : -20 to 10dBm
Sensitivity: -97dBm
Certification: FCC, CE, TELEC, KCC *