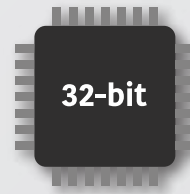


### 32-bit core

Core with 2.4GHz 32-bit<sup>™</sup> Cortex M0 core, provide a powerful processing power and a familiar environment to users.

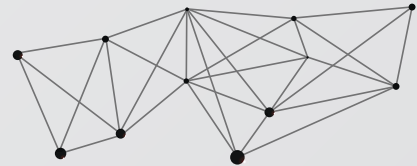


### Low power

Low power consumption of core chip, which consume 0.7 $\mu$ A at OFF mode and 2 $\mu$ A at Sleep mode.

### Mesh connection

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

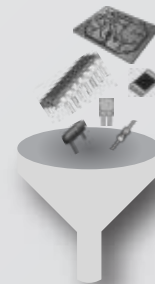


### More memory size

512KB flash and 138K SRAM provides high flexibility for more applications.

### Time to market

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



### Audio support

PRBMD00 supports audio streaming through I2S interface



**Dimension (mm):** 12 x 18 x 3

**Antenna:** chip antenna

**Interfaces:** PWM, I2S, PDM, I2C, SPI, UART, JTAG

**Bluetooth:** 5.1 compliant protocol stack  
**Core:** 32bit Cortex-M0 with 2.4GHz wireless

**Memory:** 138KB SRAM; 512KB Flash

**GPIO:** 33 (max), multiplexed

**Firmware:** serial tunneling, SDK available

**Operating voltage:** 2.5-6V

**Current consumption:** 670uA @operate; 0.8uA@ Idle

**Oscillators:** on board 16MHz, internal 32kHz RC, optional external 32768Hz oscillator

**Tx Power :** -20 to 10dBm

**Sensitivity:** -97dBm

**Certification:** FCC, CE, TELEC