

apm5283 Bluetooth Low Energy Module

DESCRIPTION

The apm5283 is a powerful multi-protocol single module solutions for low power wireless application. It incorporates with high performance radio transceiver, a 32-bit ARM Cortex M4F MCU and 512KB Flash and 64KB RAM memory. The apm5283 supports Bluetooth low energy 5.0 and 2.4GHz proprietary protocol stacks

GENERAL FEATURES

- Small footprint: 4.5×3.8×1.4 mm max ,SBGA Balls:48
- Bluetooth LE v5.0 listed single-mode module
 - QDID : [141957](#)
 - DID : [D048703](#)
- Multi-protocol 2.4GHz radio
- 32-bit ARM Cortex M4F processor
- 512kB flash + 64kB RAM
- Software stacks available as downloads
- Sensitivity of -94 dbm for Bluetooth Smart
- Programmable output power from +4dBm ~ -20dBm
- Flexible and configurable 32 pin GPIO
- Programmable Peripheral Interface – PPI
- Wide supply voltage range (1.7 V to 3.6 V)
- Full set of digital interfaces including: SPI/2-wire/UART/PDM/ I2S, all with EasyDMA
- 12-bit/200KSPS ADC
- 128-bit AES ECB/CCM/AAR co-processor
- Quadrature demodulator

APPLICATIONS

- IoT
 - Home automation
 - Sensor networks
 - Building automation
- Personal Area Networks
 - Health/fitness sensor and monitor devices
 - Medical devices
 - Key-fobs + wrist watches
- Interactive entertainment devices
 - Remote control
 - Gaming controller
- Beacons
- Remote control toys
- Computer peripherals and I/O devices
 - Mouse + Keyboard
 - Multi-touch trackpad

APPEARANCE

