

# CBT250

## Ultra Low Power with Superior Connectivity

High-Performance BT5.0 + NFC



- 2.4GHz
- PCB-trace or RF pin
- Castellated Edge Connector
- +10dBm Tx Power
- NFC Type 2 Tag

Today's Bluetooth applications demand extended range, lower power consumption, and reliable connectivity in noisy and harsh environments. The CBT250 is built to deliver superior results on all of these fronts. Its RF performance was carefully designed and tested to deliver maximum range and coverage in the most challenging surroundings. The optimized antenna, combined with the low power radio, make it ideal for power restricted applications. The integrated and efficient Cortex M4 processor can be used in power-starved applications, and the on board resources allow it to be used as standalone end device. Simple tools and reference code make it easy to integrate.

### WIRELESS FEATURES

- BT5.0
  - Tx: +10 dBm
  - 2Mbit/1Mbit PHY
  - Rx Sensitivity: -97dBm
  - 8 simultaneous Connections
- Low Power Consumption
  - Rx I ~4.3mA, 3.3V
  - Tx I ~ 20.3mA, 3.3V
  - Deep Sleep ~350nA, Wake on IO
- Long Range & Broad Coverage
- NFC Forum Type 2 Tag

### APPLICATION RESOURCES

- ARM Cortex M4 with 1.64MB/640kB Flash, 152kB SRAM
- 22 GPIO, 2 x I2C/SPI/USART, 10 x PWM, 8 ch 12-bit ADC
- RTC, I2S & Audio CODEC

### OTHER

- PCB Trace or RF Castellated
- Certifications: FCC/IC/CE
- 16.7 x 26.3 mm
- -40 to +105 Deg C

### DEVELOPMENT TOOLS, SOFTWARE

- MCUXpresso IDE
- GCC Toolchain
- NXP SDK
- CEL Plug-n-play Module Cards
- CEL Software Repository

### REFERENCE DESIGN SUPPORT

- Beacon, Proximity reporter
- OTA client
- Monitor, Notification server
- Coin Cell Hardware Reference Design

### APPLICATIONS

- Industrial
- Building Automation
- HVAC
- Connected Home
- Smart Energy
- Security Systems
- C&I Lighting Controls
- Medical

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