# IoT Bluetooth USB Dongle

## UBT100

Geniatech UBT100 is the ideal solution for energy-efficient smart home control applications such as wearables, motion sensors, interactive entertainment devices, door and window sensors, home appliance controls, lighting and more in the "Internet of Things". Combined with GeniaTech's gateway, TV set-top box and router, it is more suitable for practical applications. It has an ARM Cortex-M processor and includes ARM Cryptocell-310 technology for secure applications. Its Memory Protection Unit (MPU) supports up to eight memory segments. It supports multiple protocols.

**Low power consumption**
Low power SOC solution, low cost, low complexity,

**Simplify deployment**
USB interface, easy to expand, plug and play, is conducive to development.

**Rich application scenarios**
Wearable devices, smart home, warehouse logistics system, intelligent power supply, wireless audio and audio system, wireless sensing system

**High security**
128 bit AES ECB/CCM/AAR co-processor

**Supported system**

- Debian&openWRT(Linux)
- Android 7
- Windows (PC)

Support Bluetooth 5.0, support multi-protocol, support NFC-A listening mode, support Ant and NFC

**Customizable**
Customizable hardware interface functions; board functions;

Structure of the custom.

**Enterprise service**

Provide comprehensive quality assurance, after-sales service and technical support

Design for You, Manufactured by Us

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# Product Specification

| | |
|---|---|
| MCU | 32bit ARM@Cortex-M4Fcore at 64MHz |
| RAM/Program Memory | 256KB RAM and 1MB Flash |
| System | MCU |
| Port | USB2.0 Type-A Interface |
| Sensitivity | -95dBm |
| Key | 1(programmable) |
| Led | 1(programmable) |
| Speed Data rate | 2Mbs，1Mbs，500Kbs，125Kbs |
| Output power | -20dBm ～ 8dBm |
| USB | USB2.0 （12Mbs） |
| Frequency band | 2.4GHz |
| Power Consumption | Max curren t14.8mA<br>Sleep current 0.4μA |
| Hardware security | 128-bit AES ECB/CCM/AAR co-processor |
| Size(mm) | 42*16 |
| Net Weight(g) | 10 |
| Power | DC +5V |
| Wide working range | -40 °C ~ 85 °C |
| Storage temperature | -40 °C ~ 105 °C |

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