

Unit ZigBee

SKU:U110



Description

Unit ZigBee is a Zigbee self-organizing network communication module launched by M5Stack. The module adopts the CC2630F128 solution, with an integrated Zigbee protocol stack and an open serial communication interface. It comes with an external antenna, providing a stable communication distance of up to 1 km for a single node, with a router depth of 200 levels. Through MESH networking, it can extend your IoT applications over a wide range, featuring ultra-low power consumption and high sensitivity. The Zigbee network can support hundreds of nodes and has enhanced security features, offering a complete and interoperable IoT solution for home and building automation.

Features

- CC2630F128 (Dual ARM Core - 32-bit)
- Serial communication
- Low power consumption (Module operating current: 25mA, Sleep mode: 5uA)
- Dynamic routing maintenance, supports 200-level routing depth
- Transmission speed of 250Kbps
- Node communication distance of 1 km
- UART transparent transmission/broadcast/P2P

Includes

- 1 x Unit ZigBee
- 1 x SMA Antenna
- 1 x HY2.0-4P Grove Cable (20cm)

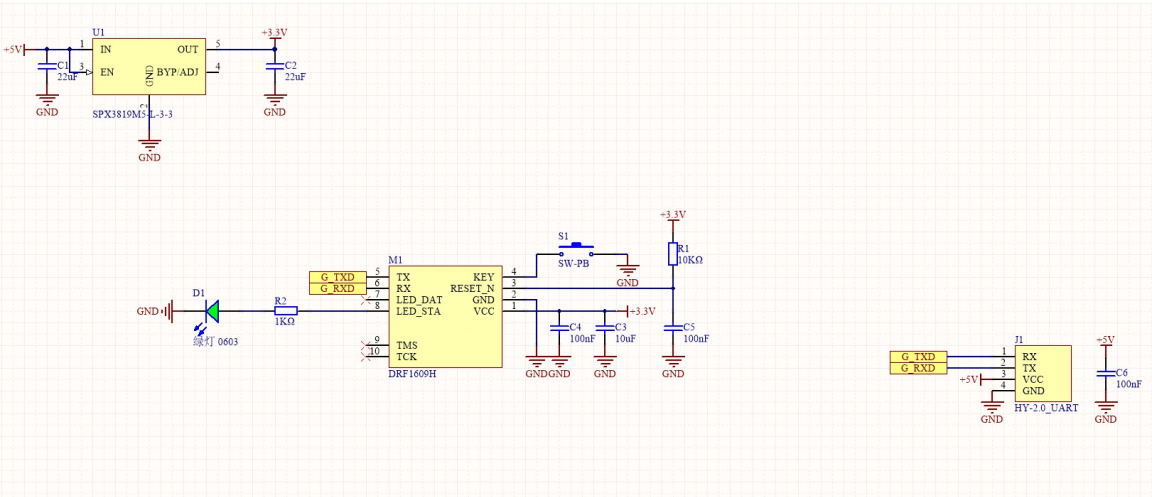
Applications

- Smart home
- IoT data collection nodes
- Building automation

Specifications

Specification	Parameter
CC2630F128	ARM Cortex-M3 32-bit
Communication Method	UART 38400bps 8N1 (default)
Communication Range	1 km (open area)
Operating Frequency	2.4 GHz (2405MHz-2480MHz, 5MHz steps)
Net Weight	24g
Gross Weight	50g
Product Size	71.5 x 24 x 8mm
Package Size	136 x 92 x 10mm

Schematics



PinMap

Unit ZigBee

HY2.0-4P	Black	Red	Yellow	White
PORT.C	GND	5V	UART_RX	UART_TX

Structure

- [Zigbee Unit Structure Files](#)

Datasheets

- [CC2630 Datasheet](#)

Softwares

Arduino

- [Unit ZigBee P2P Chat Room Example](#)
- [Unit ZigBee P2P Rssi Test Example](#)

UiFlow2

- [Unit ZigBee UiFlow2 Docs](#)

Protocol

- [Module User Manual](#)
- [PC Tool User Guide](#)
- [PC Debugging Tool](#)

EasyLoader

Easyloader	Download Link	Notes
Unit ZigBee P2P Chat Room Example with M5Core	download	/
Unit ZigBee Coordinator Example with M5Core	download	/
Unit ZigBee End Device Example with M5Core	download	/

Video

[Zigbee_CC2630.mp4](#)