

RX23W BASED NEONA BLUETOOTH LOW ENERGY 5.0 MODULE

Product Profile:

Neona Bluetooth low energy module based on Renesas RX23W Bluetooth® Low Energy Protocol Stack. It is among the lowest power Consumption. Bluetooth Smart modules supporting the Bluetooth ver.5.0 specifications. This module has integrated RF Antenna, crystals, to make it easy to be used in the application product without Requesting know-how of sensitive circuitry and RF design techniques.



Features

BLE 5.0 specifications

- Range of RF frequency: 2402 to 2480 MHz
- On-chip Bluetooth-dedicated AES-CCM (128-bit blocks) encryption circuit
- Maximum transmission output power: 4 dBm
- Output variation: +2 dB
- Integrated pcb antenna
- Line-of-sight range: up to 80 meters
- BLE Mesh supported

Module specifications

- On-chip memory: 512-KB ROM, 64-KB RAM, 8-KB E2 data flash memory
- Interfaces: USB 2.0, SPI, UART, CAN, I2C, CSI
- 12 channel capacitive touch sense channels
- Small form factor 30*24*5 mm
- 50 pins, 1.27 mm pitch can be soldered to pcb and can mount using through hole connector
- Operation voltage: 1.6V to 3.6V
- Operating Temperature: -40 to 85 °C (Ambient Temperature)

Applications

- Consumer electronics
- Home and Industrial Automation
- Beacons, Tags
- Personal navigation devices