

Wireless Sensor Series

For Long Range Wireless base by LoRa Technology



ITM-R890LR

- Linux OS Ver4.4
- Support The Thing Network
- 1Gb SPI NAND
- RS485 *2
- SD Card
- 10/100 Ethernet
- USB HS Host Support USB Wi-Fi

Brickcom provides a complete LoRaWAN ecosystem. This ecosystem provides the sensor device development platform and LoRaWAN gateway that is fully compliant with LoRaWAN Class A/C standard.

LoRa can be used in various scenarios, such as smart industry, smart agriculture, smart city, etc. Due to its long-distance transmission and low power consumption characteristics, it can meet the transmission application of small data volume. LoRa can usually be used for transmission of less than 10 kilometers.

Main Specification

- 168 dB maximum link budget
- +20 dBm - 100 mW constant RF output vs. V supply
- +14 dBm high efficiency PA
- Programmable bit rate up to 300 kbps
- High sensitivity: down to -148 dBm
- Bullet-proof front end: IIP3 = -11 dBm
- Low RX current of 9.9 mA, 200 nA register retention
- Fully integrated synthesizer with a resolution of 61 Hz
- Built-in bit synchronizer for clock recovery
- 127 dB Dynamic Range RSSI
- Automatic RF Sense and CAD with ultra-fast AFC
- Packet engine up to 256 bytes with CRC
- Built-in temperature sensor and low battery indicator

