

SN10-21/22/23 Module for your IoT applications

Key Features

- SN10-2x series is a high performance low current SIGFOX ULTRA NARROW BAND MODEM modules with BLE, WiFi and GPS function. It combined a powerful radio transceiver to offers an outstanding RF sensitivity.
- Ideal technology for IoT applications requested both long and short range wireless connectivity in the same time.



Target Applications

- Tracking devices
- Sensor networking
- Metering
- ...etc





Specifications

- Powerful 48MHz ARM® Cortex M3 Microcontroller
- Memory
 - 128kB In-System Programmable Flash
 - 20kB RAM
 - 8kB SRAM for Cache
- Multiple Wireless Connectivity SIGFOX
 - · Frequency Band:

SN10-21: 868MHz (RCZ1)

SN10-22: 902MHz & 920MHz

(RCZ2 & RCZ4)

SN10-23: 923MHz (RCZ3)

- Excellent Receiving Sensitivity: -125dBm @600bps 2GFSK
- Excellent Image Rejection: 60 dB
- Excellent Blocking Performance: 58 dB
- Output Power:

SN10-21: 14dBm

SN10-22: 22dBm

SN10-23: 13dBm

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- 2.4 GHz Bluetooth low energy compliance
- RF frequency range 2360 2500MHz
- Programmable output power up to +5dBm
- Excellent receiver sensitivity (-97 dBm)

WiFi

- IEEE 802.11 b/g/n compliance
- High receiver sensitivity (-96.2dBm @1Mbps CCK)

GPS

- Support multi-GNSS include QZSS
- Support 22tracking / 66 acquisition-channels
- Support WAAS/EGNOS/MSAS/GAGAN
- Superior sensitivity
 Acquisition: -148dBm (cold) / -163 dBm
 (hot)

Tracking: -165dBm

- NMEA 0183 V3.01 standard and backward compliance
- Interface
 - 12C
 - Digital I/O and Analog I/O (ADC)
- Sensors
 - Accelerator
- Outline
 - 27mm(L) x 27mm(W) x 2.8mm(H)
 - Castellated SMT pads
- Power Supply
 - 3.3 to 4.5 VDC
- Operating Temperature Range
 - -40°C to +85°C
- Software
 - SDK (Software Development Kit) with sample code

OEvaluation Kit is also available!

Ordering information

Please email to sigfox@innocomm.com or call +886-3-5781868 for more information.

InnoComm is authorized partner of SIGFOX® to offer modules and devices who require to develop applications based on SIGFOX® network.



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