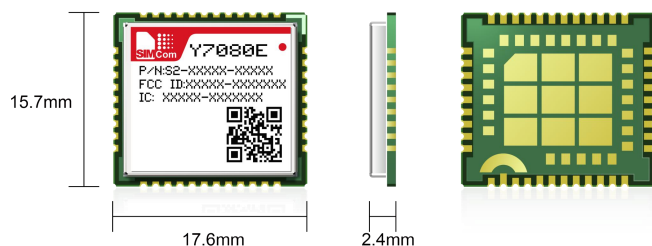


Y7080E

SIMCom LPWA Module



Multi-Band

NB-IoT

LCC/LGA

LWM2M/COAP

Compact Size

FOTA

TCP/UDP

PSM/eDRX

GNSS (Optional)

Product Description

The Y7080E is Multi-Band NB-IoT module solution in a SMT type .

It has strong extension capability with rich interfaces including UART, GPIO etc. The module provides much flexibility and ease of integration for customer's application.

The package of Y7080E is compatible with mainstream models on the market .

It is designed for applications that need low power consumption, low throughput data communication in a variety of radio propagation conditions. Due to the unique combination of performance, security and flexibility, this module is ideally suited for M2M applications, such as metering, asset tracking, remote monitoring , E-health etc..

Key Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), Y7080E can extend battery life to 10 years
- Y7080E provides deeper coverage enhancement compared to GSM

Smart machine Smart decision

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General Features

Frequency Bands: Cat-NB2 B3/B5/B8/B20/B28
Control Via AT Commands
Supply voltage range: 3.0V~4.2V [NB+GNSS]
2.2V~4.2V [NB only]
Operation temperature: -40°C to +85°C
Dimensions: 17.6×15.7×2.4 mm
Weight: 1.2g±0.2g
GNSS(Optional): Support GPS/GLONASS/Galileo*

Data

Uplink: 159Kbps Downlink:127Kbps

GNSS^①

Time-To-First Fix2:
Cold starts 29s
Hot starts <2s

Consumption

- NB only
 - 1.7uA@ PSM
 - 0.48mA @ Idle (DRX=2.56s)
 - 0.25mA @ Idle (eDRX=40.96s; PTW=81.92s)

Other Features

Firmware update via UART
TCP/UDP/HTTP/DNS/NTP/PING/TLS*/DTLS*
LWM2M*/COAP/MQTT
OneNET/CTWING
DFOTA

Interfaces

UART
USIM card (1.8V/3V)
Netlight
RI
ADC
GPIO

Certifications

RoHS/REACH/NAL/SRRC/Mobile*/Unicom*/Telecom
/CE(RED)/UKCA/GCF/Orange*/TIM*
/Telefonica/Deutsche Telekom/Vodafone
Spain/Anatel

* means under developing/on-going/planning

① means optional

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