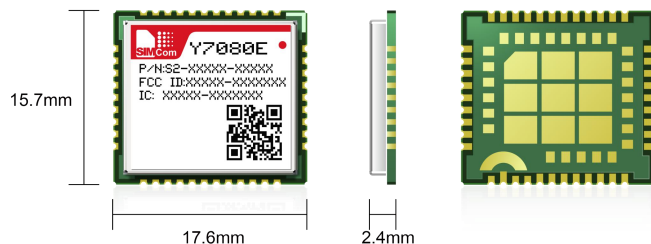


V: 2024.H2

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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SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R.China

Tel: 86-21-31575100 Email: support@simcom.com Web: www.simcom.com

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

Smart machine Smart decision

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Tel: 86-21-31575100 Email: support@simcom.com Web: www.simcom.com