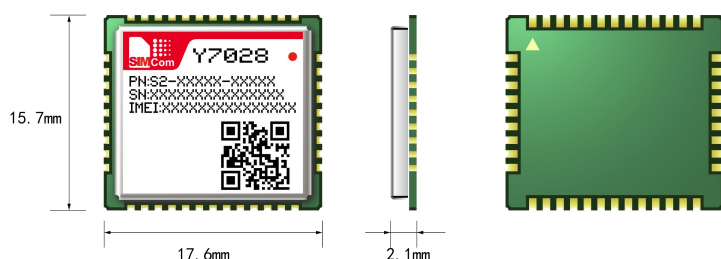


Y7028

SIMCom LPWA Module



Multi-Band

NB-IoT

LCC

LWM2M/CO
AP

Compact
Size

FOTA

TCP/UDP

PSM/eDRX

EAT

Product Description

The Y7028 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 Y7028 is compatible with mainstream models on the market . This also maximizes the investments of customers, and enables a short time-to-market.

It is designed for applications that need low latency, 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), Y7028 can extend battery life to 10 years
- Y7028 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: 2.2V-4.2V

Operation temperature: -40°C to +80°C

Dimensions: 17.6×15.7×2.1 mm

Weight: 1.0g±0.2g

Other Features

Firmware update via UART

TCP/UDP/HTTP/DNS/NTP/PING/TLS*/DTLS*

LWM2M*/COAP/MQTT

OneNET

DFOTA

Data

Uplink: 159Kbps Downlink:127Kbps

Consumption

~1 uA @ PSM

0.73 mA @ Idle (DRX=2.56s)

0.16mA @ Idle (eDRX=40.96s; PTW=10.24s)

Interfaces

UART

USIM card (1.8V/3V)

Netlight

RI

Reset

ADC

GPIO

WARKUP

Certifications

CE*

RoHS*/REACH*

* means under developing/on-going/planning

Smart machine Smart decision

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