R7072

SIMCom LPWA Module

24mm

24mm

2.5mm

Multi-Band

Cat-NB

MQTT

LWM2M

Compact Size

FOTA

TCP/UDP

PSM/eDRX

HTTP/SSL
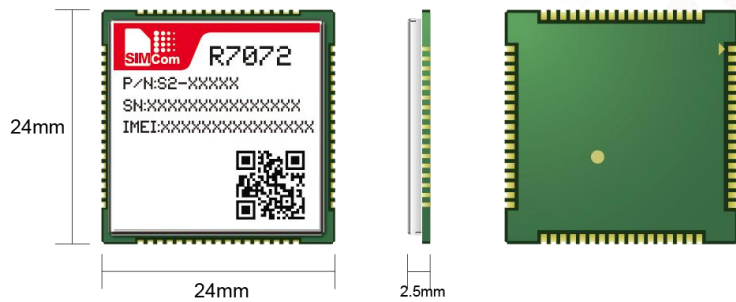
Product Description

R7072 is the LPWA module which supports wireless communication modes of Cat-NB/GPRS.

R7072 adopts LCC form factor and has a compact size of 24mm*24mm which makes it ideal for compact products design.
R7072 has powerful expansibility with abundant interfaces including UART, GPIO, I2C etc. The R7072 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.
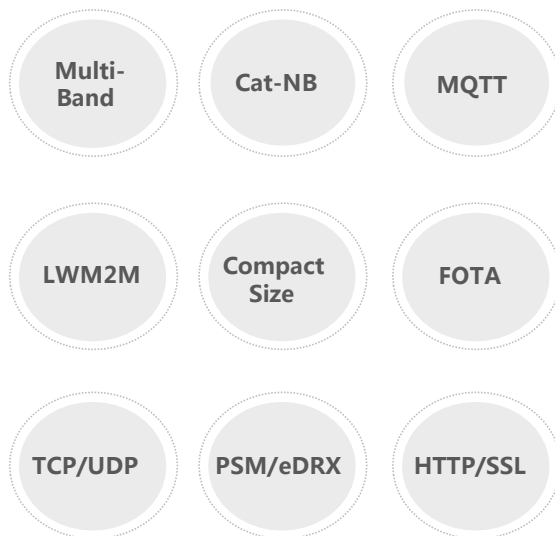
Key Benefits

◆ With Power Saving Mode(PSM) and Extended Discontinuous Reception(eDRX), R7072 can extend battery life up to 10 years

◆ R7072 provides deeper coverage enhancement compared to GSM

General Features

Frequency Bands	Cat-NB B3/B5/B8/B20/B28
	GSM 900/1800MHz
Supply voltage range	3.4V ~ 4.2V
Control Via AT Commands	
Operation temperature	-40℃ ~ +85℃
Dimensions	24*24*2.5mm
Weight	2.7±0.2g

Data

Cat-NB	Uplink 15.625Kbps
	Downlink 127Kbps
GPRS	Uplink 171.2Kbps
	Downlink :21.25 Kbps

Power Consumption

PSM	4.5uA
Sleep	0.7mA
Idle	(AT+CSCLK=0；AT+CFUN=1) GSM Typ.:11mA NB-IOT Typ:9.5mA
eDRX	0.8mA (PTW=25.6s；eDRX=162.84s；DRX=2.56s)

Other Features

TCP/UDP/HTTP/HTTPS
PING/MQTT/TLS*/DTLS*
LWM2M/COAP
Firmware update via UART
FOTA

Interfaces

UART
SIM (1.8V/3.0V)
I2C
GPIO
ADC

Certifications

CE
RoHS/REACH