

Unit NB-IoT

SKU:U111



Description

Unit NB-IoT The **NB-IoT** wireless communication module applicable to the **global range** Cat-NB frequency band. Built-in **SIM7020G** communication module, using serial communication (AT command set control), integrated SMA external antenna interface, improving the device communication quality and signal stability, SIM7020G module is the best low-latency, low-throughput application The excellent solution is very suitable for IoT applications such as metering, remote control, asset tracking, remote monitoring, telemedicine, and shared bicycles.

Product Features

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- Global version/multi-band support
 - Strong signal access capability
 - AT command control
 - SIM card type: Nano
 - External antenna: SMA antenna
 - Serial communication: UART 115200bps
 - Cat-NB frequency band:

B1/B2/B3/B4/B5/B8/ B12/B13/B17/B18/B19/ B20/B25/B26/B28/
B66/B70/B71/B85

- Data transmission (kbps):
126(DL)/150(UL)
- Network protocol: -TCP/UDP/HTTP/HTTPS/ TLS/DTLS/DNS/NTP/
PING/LWM2M/COAP/ MQTT/MQTTS

Include

- 1x Unit NB-IoT
- 1x SMA antenna
- 1x HEX KEY

Applications

- Smart meter
- Remote monitoring
- Shared bicycles

Certification

RoHS\REACH\RCM\Telstra\CE(RED)\GCF\ATEX\TIM\Deutsche
Telekom\Vodafone\FCC\PTCRB\T-Mobile\IC

Operator certification

Telstra*/Vodafone/Deutsche Telekom

Specification

Resources	Parameter
Module	SIM7020G

Support Cat-NB frequency band	B1/B2/B3/B4/B5/B8/ B12/B13/B17/B18/B19/ B20/B25/B26/B28/ B66/B70/B71/B85
Network protocol	TCP/UDP/HTTP/HTTPS/ TLS/DTLS/DNS/NTP/ PING/LWM2M/COAP/ MQTT/MQTTS
communication	UART 115200bps
Net weight	12.8g
Gross weight	55g
Product Size	71.5*24*8mm
Package Size	95*65*25mm

Related Link

AT Command

[SIM7020 Series AT Command Manual V1.05](#)

Pin mapping

M5Stack	TX(GPIO17)	RX(GPIO16)	5V	GND
Unit NB-IoT	RX	TX	VIN	GND

Schematic

