

# 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

- 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

### ◦ Datasheet

- [SIM7020 Series datasheet](#)
- [SIM7020 Series\\_Ayla\\_Application Note\\_V1.03](#)
- [SIM7020 Series\\_CTBURST\\_Application Note\\_V1.01](#)
- [SIM7020 Series\\_CoAP\\_Application Note\\_V1.03](#)
- [SIM7020 Series\\_EAT\\_Environment & Compilation & Burning Guide\\_V1.02.](#)
- [SIM7020 Series\\_FOTA\\_Application\\_Note\\_V1.02](#)
- [SIM7020 Series\\_HTTP\(S\)\\_Application Note\\_V1.04](#)
- [SIM7020 Series\\_LWM2M\\_Application Note\\_V1.03](#)
- [SIM7020 Series\\_Low Power Mode\\_Application Note\\_V1.05](#)
- [SIM7020 Series\\_MQTT\(S\)\\_Application Note\\_V1.05](#)
- [SIM7020 Series\\_NVRAM\\_Application Note\\_V1.02](#)
- [SIM7020 Series\\_SAT\\_Application Note\\_V1.01](#)
- [SIM7020 Series\\_SNTP\\_Application Note\\_V1.03](#)
- [SIM7020 Series\\_TCPIP\\_Application Note\\_V1.04](#)

### ◦ AT Command

- [SIM7020 Series\\_AT Command Manual\\_V1.05](#)