The SIM7020E 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 SIM7020E is compatible with SIM800C. 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), SIM7020E can extend battery life to 10 years
- SIM7020E provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7020E mostly are compatible with SIM800C.
### General Features

- **LTE-FDD:** B1/B3/B5/B8/B20/B28
- Control Via AT Commands
- Supply voltage range: 2.1V-3.6V
- Operation temperature: -40°C to +85°C
- Dimensions: 17.6 X 15.7 X 2.3mm
- Weight: 1.3g ± 0.2g

### Other Features

- Firmware update via UART
- TCP/UDP
- HTTP/HTTPS/TLS/DTLS/DNS/NTP/PING
- LWM2M/COAP/MQTT/MQTTS
- Ayla Cloud/Ali Cloud
- FOTA
- EAT

### Data

- Uplink: 62.5Kbps  Downlink: 26.15Kbps

### SMS

- Text and PDU mode

### Consumption

- PSM: 3.4 uA
- Sleep: 0.4mA
- Idle: 5.6mA
- eDRX: 30uA (eDRX=655.36s)

### Interfaces

- UART
- SIM card (1.8V/3V)
- Embedded SIM IC (Optional)
- GPIO
- ADC
- Netlight
- PSM_EINT
- Reset
- Powerkey

### Certifications

- CE
- RoHS / REACH
- GCF*
- DTAG*/VDF*

* In development