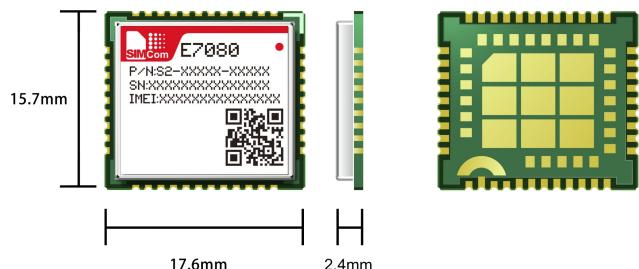


E7080

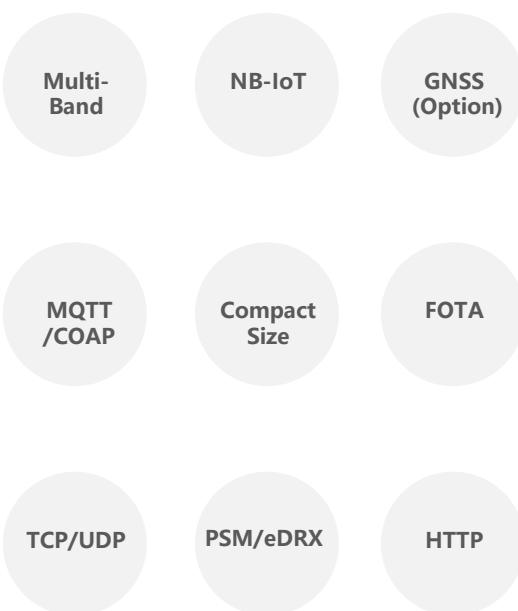


Product Description

The E7080 is Multi-Band NB-IoT module solution in a SMT type .

It has strong extension capability with rich interfaces including UART, GPIO etc.

The E7080 has rich hardware interfaces, including UART, GPIO, ADC, etc., giving the module extensive expandability. Its package is compatible with the Y7080E/SIM7022/SIM7080G/SIM7022 series, providing great convenience for users' product development.



As a wireless communication module featuring low power consumption, wide area coverage and long-distance communication, the E7080 module is widely used in demand scenarios requiring low bandwidth, low power consumption, long distance and a large number of connections. It is highly suitable for Internet of Things applications such as metering, remote control, asset tracking, remote monitoring, telemedicine, and shared bicycles.

Key Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), E7080E can extend battery life to 10 years
- GNSS function configurable, support Standalone mode, support GPS/BDS/GLO/GAL/QZSS
- The package of E7080E mostly are compatible with Y7080E/SIM7022/SIM7080G/SIM7022 series.

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Product		E7080
Form Factor		LCC+LGA, 77PIN
Dimensions(mm)		15.7*17.6*2.4
Frequency Bands	Cat-NB2	Cat-NB2:B1/B2 ^① /B3/B4 ^① /B5/B8/B12 ^① /B13 ^① /B17 ^① /B20/B28/B85 ^①
LTE RF Power Class		Class 3 (Typ. 23dbm)
Temperature		-40°C ~ +85°C
Electrical Features		
Supply Voltage Range(V)		3.0V~4.5V [NB+GNSS] (Typical value: 3.6V) 2.1V~4.5V [NB only] (Typical value: 3.6V)
Power Consumption(mA)	@PSM(uA) @eDRX(mA) @Idle(mA)	2.1 uA 43 uA 1.7 mA
Data Transfer		
Cat-NB2(Kbps)		127(DL)/158.5(UL)
GNSS Features (Option)		
Time-To-First Fix2:		Cold Starts:29s/Hot Starts:<2s
Software Features		
Protocol		IPv4, IPv6 and non-IP ONENET/CTWING/TCP/UDP/HTTP/PING/DTLS*/TLS*/MQTT/COAP/LwM2M*/PPP FOTA
Memory		2MB or 4MB NOR flash
FOTA		•
Embedded AT		•
Firmware Upgrade		UART/FOTA
Interfaces		
SIM Card		1.8/3.0V
AGPIO		•
UART		•
ADC		•
SPI		•
GPIO/I ² C		•
Certification		
Regulatory		SRRC*/NAL*/RoHS*/REACH*/CE*/UKCA*/GCF*/Orange*/TIM*/Telefonica*/Deutsche Telekom*/Vodafone Spain*/Anatel*
Carrier		Telecom*/Mobile*

•: support ○: optional
*: means under developing/on-going/planning
①: Special software version required

Smart machine Smart decision

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SIMCom Headquarters Building, Building 3, No. 289 Linhong Road, Changning District, Shanghai P.R.China
Tel: 86-21-31575100 Email: support@simcom.com Web: www.simcom.com