SIM7000E

The SIM7000E is Tri-Band LTE-FDD and Dual-Band GPRS/EDGE module solution in a SMT type which supports LTE CAT-M1(eMTC) and NB-IoT up to 375kbps data transfer. It has strong extension capability with rich interfaces including UART, USB2.0, GPIO etc. The module provides much flexibility and ease of integration for customer's application. The package of SIM7000E is compatible with SIM900 and SIM800F. AT commands of SIM7000E are mostly compatible with SIM800F. This also maximizes the investments of customers, and enables a short time-to-market.

Benefits

- With Power Save Mode(PSM) and Extended Discontinuous Reception(eDRX), SIM7000E can extend battery life to 10 years
- SIM7000E provides deeper coverage enhancement compared to GSM
- The package and AT commands of SIM7000E mostly are compatible with SIM900 and SIM800F.

Product Features

Tri-Band FDD-LTE B3/B8/B20
GPRS/EDGE 900/1800Mhz
Output power
- GSM900: 2W
- DCS1800: 1W
Control Via AT Commands
Supply voltage range: 3.0V~ 4.3V, Typ: 3.8V
Operation temperature: -40° to +85°
Dimensions: 24 X 24 X 2.6mm
Weight: 3.0g
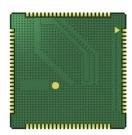GNSS (GPS,GLONASS and BeiDou/Compass, Galileo, QZSS)

Otto Wireless Solutions
58 Wakis Avenue, Strijdompark
Randburg, 2155
PO BOX 55536 Northlands 2116
Republic of South Africa
Tel: +27 11 791 1033 | Fax: +27 11 791 1187
wireless@otto.co.za | www.otto.co.za

Other Features

- USB Driver for Microsoft Windows XP/Vista/7/8
- USB Driver for Windows CE/Mobile
- USB Driver for Linux/Android
- Firmware update via USB
- TCP/IP
- PPP
- SMS
- EMAIL
- FTP/HTTP/SSL
- VoLTE*
- FOTA *

Data

- LTE CAT-M1(eMTC) - Uplink up to 375kbps, Downlink up to 300kbps
- NB-IoT - Uplink up to 66kbps, Downlink up to 34kbps
- EDGE Class - Uplink up to 236.8Kbps, Downlink up to 236.8Kbps
- GPRS - Uplink up to 85.6Kbps, Downlink up to 85.6Kbps

Interfaces

USB2.0 x1 (high-speed)
UART x2 (7-wire UART and 2-wire UART interface multiplex from GPIO)
SIM card x1 (1.8V and 3V)
I2C x1
GPIO x5
ADC x1

Consumption

Power off: 7uA
PSM: 9uA
Sleep: 1mA
Idle: 11mA

Specifications for SMS

Point to point MO and MT
Text and PDU mode

Certifications

CE* / RoHS / REACH