LTE-FDD/LTE-TDD/HSPA+/EVDO/ GSM MODULE

SIM7100CE

SIMCom presents an ultra compact and reliable wireless module SIM7100CE which is based on Qualcomm MDM9615 multiple-mode LTE platform. SIM7100CE is a complete multi-band TDD-LTE/FDD-LTE/WCDMA/CDMA2000/EVDO/TD-SCDMA/GSM/GNSS SMT type module designed with very powerful processors integrating application core:Cortex™ A5(550MHz),three QDSP6 cores (Up to 500Mhz), allowing customer to benefit from small dimensions and cost-effective product solutions.

It has strong extension capability with rich interfaces including UART, USB2.0, SPI, I2C,Keypad, PCM, etc. With abundant application capabilities like TCP/UDP/FTP/FTPS/HTTP/HTTPS/SMTP/POP3 and MMS, the module provides much flexibility and ease of integration for customer's applications.

Smart Machine Smart Decision

General features
• Three-Band FDD-LTE B1/B3/B8
• Four-Band TDD-LTE B38/B39/B40/B41
• Dual-Band UMTS/HSDPA/HSPA+ B1/B8
• Dual-and TD-SCDMA B34/B39
• Single-Band CDMA 1X/EVDO BC0
• Dual-Band GSM/GPRS/EDGE 900/1800 MHz
• Control Via AT Commands
• Supply voltage range: 3.4V~ 4.2V
• Operation temperature: -40℃ to +85℃
• Dimension: 30 X 30X 2.9 mm
• Weight: 5.8g
• GNSS: gpsOne Gen 8B;standalone;assisted,XTRA;

Specifications for Data transfer
•   LTE
  - Uplink up to 50Mbps,
  - Downlink up to 100Mbps
•   TD-HSDPA/HSUPA
  - Uplink up to 2.2 Mbps,
  - Downlink up to 2.8 Mbps
•   TD-SCDMA
  - Uplink up to 128Kbps,
  - Downlink up to 384Kbps
•   HSPA+
  - Uplink up to 5.76 Mbps,
  - Downlink up to 42 Mbps
•   UMTS
  - Uplink/Downlink up to 384Kbps
•   CDMA2000/EVDO
  - Max. 3.1Mbps(DL), Max. 1.8Mbps(UL)
• EDGE Class:
   - Max. 236.8Kbps(DL),Max. 236.8Kbps(UL)
• GPRS
   - Max. 85.6Kbps(DL), Max. 85.6Kbps(UL)
• CSD
   - GSM data rate 14.4Kbps
   - WCDMA data rate 57.6Kbps
   - WCDMA 64kbps CSD for Video call

Other features
• USB Driver for Microsoft Windows
  2000/XP/Vista/7/8
• USB Driver for Windows CE/Mobile
• USB Driver for Linux /Android
• RIL supporting for Android/Windows CE/Mobile
• Automatic installation for windows
• Linux API SDK
• Firmware update via USB
• TCP/IP/IPV4/V6 Multi-PDP,MT PDP
• FTP/FTPS/HTTP/HTTPS/SMTP/POP3/DNS/MMS
• DTMF
• Gobi SDK to the Win7/Win8/Linux
• MBIM to Win8
• Source code of the PC manager of the device
  for reference

Interfaces
• USB2.0
• UART
• SIM card
• SPI
• I2C
• Keypad(5*5)
• Constant current sink
• GPIO
• ADC
• PCM
• SDIO

Certifications
• CCC
• TA
• CTA
• RoHS
• REACH

NOTE: * Only supported in Home Security and Telematics Applications