LTE-FDD/HSPA+ MODULE

SIMCom
A company of SIM Tech



SIM7100E

SIMCom presents an ultra compact and reliable wireless module SIM7100E which is based on Qualcomm MDM9215 multiple-mode LTE platform. SIM7100E is a complete multi-band TDD-LTE/FDD-LTE/WCDMA/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

- Five-Band FDD-LTE B1/B3/B7/B8/B20
- Dual-Band TDD-LTE B38/B40
- Dual-Band UMTS/HSDPA/HSPA+ B1/B8
- 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
- HSPA+
  - Uplink up to 5.76 Mbps,
  - Downlink up to 42 Mbps
- UMTS
  - Uplink/Downlink up to 384Kbps
- 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/Win7/Win8
- USB Driver for Windows CE
- USB Driver for Linux /Android
- RIL supporting for Android/Windows CE
- 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
- 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

- CE (ongoing)
- ROHS
- REACH

More about SIMCom SIM7100E
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All specifications are subject to change without prior notice.