WCDMA/HSDPA Module

SIMCom
A company of SIM Tech

SIM5320

The SIM5320 series is Dual-Band HSDPA/WCDMA and Quad-Band GSM/GPRS/EDGE module in a SMT package which supports HSDPA up to 3.6Mbps for downlink data transfer.

It has strong extension capability with rich interfaces including UART, USB2.0, SPI, I2C,Keypad, PCM, etc. With abundant application capability like embedded LUA script, TCP/UDP/FTP/FTPS/HTTP/HTTPS/SMTP/POP3 and MMS, the module provides much flexibility and ease of integration for customer's application. It is ideal for a wide range of products like PDA, MID, PND, POS, Tracker, AMI, Health Care etc.

Smart Machine Smart Decision

General features
• SIM5320A： Dual-Band UMTS/HSDPA 850/1900MHz
           Quad-Band GSM/GPRS/EDGE 850/900/1800/1900MHz
  SIM5320(J)E：Dual-Band UMTS/HSDPA 900/2100MHz
           Quad-Band GSM/GPRS/EDGE 850/900/1800/1900MHz
  SIM5320J：Dual-Band UMTS/HSDPA 850(800)/2100MHz
           Quad-Band GSM/GPRS/EDGE 850/900/1800/1900MHz
• GPRS multi-slot class 12
• EDGE multi-slot class 12
• Output power
        - UMTS 850/1900: 0.25W
        - UMTS 900/2100: 0.25W
        - GSM850/GSM900: 2W
        - DCS1800/PCS1900: 1W
• Control Via AT Commands
• Supply voltage range: 3.4~ 4.2V
• Operation temperature: -30℃ to +80℃
• Extended operation temperature: -40℃ to +85℃
• Dimension: 30 * 30 * 2.9 mm
• Weight: 5.6g

Support embedded Script Language
• LUA Script Language
• Embedded AT *

Specifications for GPS/Location
• CELL assistant Location (No GPS)
• A-GPS: MS-Based, MS-Assisted
• Stand-alone GPS
• QUALCOMM XTRA GPS mode

Specifications for Data transfer
• HSDPA
        - Max. 3.6Mbps(DL)
•WCDMA
        - Max.384Kbps(DL), Max.384Kbps(UL)
• EDGE Class:
        - Max. 236.8Kbps(DL),Max.118Kbps(UL)
• GPRS
        - Max. 85.6Kbps(DL), Max.42.8Kbps(UL)
• CSD
        - GSM data rate 14.4Kbps
        - WCDMA data rate 57.6Kbps
        - WCDMA 64kbps CSD for Video call
• Multi-PDP connect application

Specifications for SMS
• Point to point MO and MT
• Text and PDU mode

Other features
• USB Driver for Microsoft Windows 2000/XP/Vista/7/8/10
• USB Driver for Windows CE/Mobile
• USB Driver for Linux /Android
• Firmware update via USB
• MMS
• TCP/IP
• MUX protocol over UART
• FTP/FTPS/HTTP/HTTPS/SMTP/DNS
• FOTA

Interfaces
• USB2.0
• UART
• SIM card
• SPI
• I2C
• Keypad
• Constant current sink
• GPIO
• RTC
• ADC
• Mic/Receiver **
• PCM **

Certifications

SIM5320A • FCC
         • PTCRB
         • IC
         • ROHS,
         • REACH

SIM5320E • CE
         • GCF
         • ROHS
         • REACH
         • NCC
         • CCC
         • CTA

SIM5320J(E) • Telec
            • JATE

Carrier Approvals
SIM5320A • AT&T, Rogers
SIM5320E • TIM, Orange, Vodafone
SIM5320J • Docomo
SIM5320JE • SoftBank

NOTE： *   Embedded AT is option
        ** Only supported in Home Security and Telematics Applications