WCDMA/HSDPA Module

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
  SIM5320E   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

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

Specifications for Network Identity and Time zone (NITZ)
• Support in GSM and WCDMA

Other features
• USB Driver for Microsoft Windows 2000/XP/Vista
• USB Driver for Windows CE/Mobile
• USB Driver for Linux 2.6/Android
• Firmware update via USB
• MMS
• TCP/IP
• MUX protocol over UART
• FTP/FTPS/HTTP/HTTPS/SMTP/POP3/DNS
• FOTA
• eCall Ready
•Jamming detection support

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

Certifications

SIM5320A	• FCC	SIM5320E	• CE
	• PTCRB		• GCF
	• IC		• ROHS
	• ROHS,		• REACH
	• REACH		• NCC

Carrier Approvals

SIM5320A	• AT&T, Rogers	SIM5320J	• Telec
SIM5320E	• TIM		• JATE