



WCDMA/HSPA Module



SIM5218

The SIM5218 series is Tri-Band/Single-Band HSPA/ WCDMA and Quad-Band GSM/GPRS/EDGE module solution which supports up to 7.2Mbps downlink speed and 5.76Mbps uplink speed services. It has strong extension capability with rich interfaces including UART, USB2.0 high speed, Embedded SIM Card, SD Card, Camera sensor, GPS, etc. With abundant application capability like embedded LUA script, TCP/UDP/FTP/FTPS/HTTP/HTTPS/SMTP/POP3 and MMS, it will add much value to customers' application. It is ideal for a wide arrange of products including USB Modems, gateways, router, PDA, Video phone, and much more.

Smart Machine Smart Decision

General features

- SIM5218A: Tri-Band UMTS/HSPA850/1900/2100 MHz
- SIM5218E :Tri-Band UMTS/HSPA 900/1900/2100MHz
- SIM5218C: Single-Band UMTS 2100MHz
- SIM5218J: Tri-Band UMTS/HSPA800/1900/2100 MHz
- SIM5218A/E/C/J: Quad-Band GSM/GPRS/EDGE 850/900/1800/1900
- Video call with Camera sensor interface
- WCDMA Diversity
- HSDPA 7.2Mbps
- HSUPA: 5.76Mbps
- GPRS multi-slot class 12
- EDGE multi-slot Class 12
- Output power
 - UMTS 850/1900/1900/2100: 0.25W
 - GSM850/GSM900: 2W
 - DCS1800/PCS1900: 1W
- Control Via AT Commands
- Supply voltage range: 3.4 ~ 4.2V
- Dimension: 58 * 26 * 4.5mm
- Weight: 15g
- Normal operation temperature: -20° C to +70° C
- Restricted operation temperature: -30° C to -20° C;
+70° C to +80° C
- Storage temperature: -40° C to +85° C

Specifications for Data

- HSDPA - Max. 7.2Mbps (DL),
- UE Category: 4, 6, 8, 12
- HSUPA - Max.5.76Mbps(UL)
- HSUPA+HSDPA
- Max. 2.0Mbps (UL) +3.6Mbps (DL)
- UMTS
- 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
- UMTS date rate 57.6kbps

Specifications for A-GPS/GPS

- A-GPS mode: MS-Based, MS-Assisted
- Stand-alone GPS

Specifications for Network Identity and Time zone (NITZ)

- support on GSM and WCDMA

Specifications for video call:

- DTMF on H245
- Support standard WCDMA 64kbps (CS) Video call

Specification for SMS:

- Point to point MO and MT
- Text and PDU mode

Specification for Voice:

- Voice Codec HR, FR, EFR, AMR
- DTMF

Other features:

- USB Driver for Microsoft Windows 2000/XP/Nista/Windows mobile/ Windows CE
- USB Driver for Linux 2.6.16
- Firmware update via USB
- MMS
- TCP/IP
- FTP/FTPS/HTTP/HTTPS/SMTP/POP3
- FOTA

Interfaces

- Embedded SIM card (option)
- USB2.0 high speed
- UART
- USIM
- Audio: 2 Microphone, 3 speakers
- Camera interface
- SD card interface
- I2C interface
- GPIO

Certifications

- SIM5218A • CE
 - FCC
 - ROHS
- SIM5218E • CE
 - FCC
 - ICACA
 - ROHS
- SIM5218J • Telec
 - JATE

Carrier Approvals

- SIM5218E • NCC
 - TIM

More about SIMCom SIM5218
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