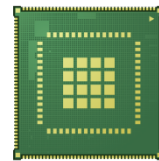


LTE-FDD/TDD/DC-HSPA+ Smart Module



SIM8950A



SIMCom presents an ultra compact and reliable wireless module SIM8950A which is based on Qualcomm MSM8953 multiple-mode LTE platform. SIM8950A is a complete multi-band LTE-FDD/TDD/DC-HSPA+/HSPA/UMTS/EGDE/GPRS/GSM/GNSS smart module designed with very powerful processors, allowing customers to benefit from small dimensions and cost-effective product solutions with low power consumption in high-speed throughput.

Smart Machine Smart Decision

General features

- Nine-Band LTE-FDD B2/4/5/7/12/13/17/25/26
- One-Band LTE-TDD B41
- Five-Band UMTS/HSDPA/HSPA+ B1/B2/B4/B5/B8
- Third-Band GSM/GPRS/EDGE B2/B5/B8
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- Supply voltage range: 3.4 ~ 4.4 V
- Operation temperature: : -25°C to +75°C
- Storage temperature : -40°C to +90°C
- Dimension: 44.1*45.6*2.8mm
- Weight: 12.5g
- LTE FDD/TDD Rel-9 Cat4/Rel-10 Cat7
- UMTS
- HSPA+ DC-HSPA+, Rel-10
- GSM GSM R99, GPRS, EDGE
- GNSS gpsOne Gen 8C lite; GPS, BeiDou, GLONASS or Galileo;
- WIFI 2.4/5G 802.11a/b/g/n/ac up to 433Mbps
- BT2.1+EDR/3.0/4.2 LE

Specifications for Data transfer

- LTE
 - LTE-FDD: Max 150Mbps(DL)/Max 50Mbps(UL)
 - LTE-TDD: Max 130Mbps(DL)/Max 35Mbps(UL)
- UMTS
 - DC-USDPA: Max 42Mbps(DL)
 - HSUPA: Max 5.76Mbps(UL)
 - WCDMA: Max 384Kbps(DL/UL)
- GSM
 - EDGE: Max 296Kbps(DL)/236.8Kbps(UL)
 - GPRS: Max 107Kbps(DL)/85.6Kbps(UL)

Other features

- 2GB LPDDR3 RAM + 16GB eMMC flash
- Octa-core ARM cortex A53 2.0GHz
- Video 4K at 30fps, 1080p at 60 fps
 - Encode (H.264/H.265/VP8)
 - Decode (H.264/H.265/VP8/VP9)
- GPU
 - Adreno 506 650MHz, 3D graphics accelerator
 - OpenCL 2.0 FP, DX12, PenGL ES3.1+, AEP
- Web technologies
 - V8 JavaScript Engine optimizations
 - JPEG hardware decode acceleration
 - IP and HTTP tuning
 - Flash and video processor decode optimization
- Android 7.x

Interfaces

- 2 Camera (MIPI, 24MP)
- 2 LCD (MIPI, FHD 1920X1200 @60fps)
 - Capacitive panels via ext IC
- Analog Audio (Microphone, Headset, Handset)
- USB 2.0/3.0, OTG, type C
- UART
- I2C interface
- ADC 10bit
- Micro SD card interface
- Battery
- GPIO
- SPI
- RTC

Certifications

- ROHS(TBD)

More about SIMCom SIM8950A Please contact:

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