

LTE-FDD/TDD/TD-SCDMA/DCHSPA+ Smart Module



SIM8950



SIMCom presents an ultra compact and reliable wireless module SIM8950 which is based on Qualcomm MSM8953 multiple-mode LTE platform. SIM8950 is a complete multi-band LTE-FDD/TDD/TD-SCDMA/DC-HSPA+/HSPA/UMTS/EVDO/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

- Quad-Band LTE-FDD B1/B3/B5/B8
- Five-Band LTE-TDD B34/B38/B39/B40/B41
- Dual-Band UMTS/HSDPA/HSPA+ B1/B8
- Dual-Band TD-SCDMA B34/B39
- EVDO/CDMA BC0
- Dual-Band GSM/GPRS/EDGE B3/B8
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- WIFI a/b/g/n/ac and BT 4.2
- Supply voltage range: 3.4 ~ 4.4 V
- Operation temperature: -25°C to +75°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
- TD-SCDMA HSDPA Cat. 15
- TD-SCDMA HSUPA Cat. 6
- GSM GSM R99, GPRS, EDGE
- GNSS gpsOne Gen 8C lite; GPS, BeiDou, GLONASS or Galileo;

Specifications for Data transfer

- LTE-FDD/LTE-TDD
 - Uplink up to 50Mbps,
 - Downlink up to 150Mbps
- HSPA+
 - Uplink up to 11 Mbps,
 - Downlink up to 42 Mbps
- UMTS
 - Uplink/Downlink up to 384Kbps
- TD-HSDPA/HSUPA
 - Uplink up to 2.2 Mbps,
 - Downlink up to 2.8 Mbps
- TD-SCDMA
 - Uplink up to 128Kbps,
 - Downlink up to 384Kbps

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
 - OpenCL2.0 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
- Android7.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)

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