

Quectel M95

Quad-band GSM/GPRS Module



M95 is a highly compact Quad-band GSM/GPRS module in LCC castellation packaging in the market. It adopts the latest MTK chipset and features compact size of 19.9mm × 23.6mm × 2.65mm, ultra low power consumption and extended temperature range.

With surface mounted technology, the low profile and small size of LCC package make M95 easily embedded into the lowvolume applications and ensure the reliable connectivity with the applications. This kind of package is ideally suited for large-scale manufacturing which has the strict requirements for cost and efficiency.

Built-in unique QuecFOTA[™] technology allows M95 to update the firmware remotely. Additional features such as integrated TCP/IP protocol stacks, serial multiplexer and enhanced AT commands guarantee fast and reliable transmission of data, voice, SMS via GSM/GPRS network and extend the functionality of the application at no additional cost.

Its compact size and ultra low power consumption makes M95 a very cost effective and feature-rich platform that is quite suitable for a wide range of M2M applications such as VTS, industry PDA, personal tracking, wireless POS, smart metering and many other M2M applications.



QuecLocator

Quectel M95

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19.9 mm

Frequency Band

Quad-band: 850/ 900/ 1800/ 1900MHz

Data

GPRS Class 12: Max. 85.6kbps (Uplink & Downlink) PBCCH Coding Schemes: CS 1, 2, 3. 4 USSD Non-transparent Mode

SMS

Point-to-point MO and MT SMS Cell Broadcast Text and PDU Mode

Voice

Speech Codec Modes: Half Rate (HR) Full Rate (FR) Enhanced Full Rate (EFR) Adaptive Multi-Rate (AMR) Echo Arithmetic: Echo Cancellation Echo Suppression Noise Reduction

Interfaces

(U)SIM Card Interface: × 2, (U)SIM 3.0V/ 1.8V UART: × 2 Analog Audio Channel: × 2 (Embedded Class-AB Amplifier in One Channel) PCM RTC Backup Antenna Pad

Enhanced Features

eCall Jamming Detection DTMF Audio Play/ Audio Record Dual SIM Single Standby QuecFOTA[™] QuecCell QuecLocator RIL for Android MUX

Electrical & Sensitivity

Output Power:

Class 4 (2W @850/ 900MHz) Class 1 (1W @1800/ 1900MHz) Consumption: 1.3mA @DRX=5 1.2mA @DRX=9 Sensitivity: GSM850: -109dBm GSM900: -109dBm DCS1800: -109dBm PCS1900: -109dBm Supply Voltage: 3.3V~4.6V, 4.0V Typ.

Software Features

Protocols: PPP/ TCP/ UDP/ FTP/ HTTP/ SMTP/ SSL/ MUX

General Features

GPRS Multi-slot Class: 12, 1~12 Configurable GPRS Mobile Station: Class B Extended Temperature: -40°C ~ +85°C Dimensions: 19.9mm × 23.6mm × 2.65mm LCC Package Weight: Approx. 3.0g GSM 07.07, 07.05 and other Enhanced AT Commands

Approvals

RoHS Compliant CE/ GCF/ Vodafone/ UCRF/ ATEX/ Vodafone (Europe) DoC (Russia) FCC/ PTCRB/ IC/ Rogers (North America) Anatel (Brazil)) NCC (Taiwan) ICASA (South Africa)

2.65 mr

