Quectel M95-R

Quad-band
GSM/GPRS Module

23.6 mm

19.9 mm

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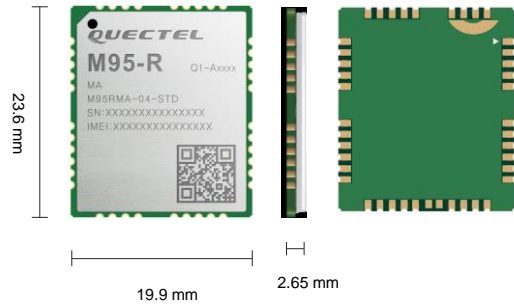
M95-R is a highly compact Quad-band GSM/GPRS module in LCC castellation packaging in the market. It adopts the latest RDA chipset and features compact size of 23.6 mm × 19.9 mm × 2.65 mm, ultra low power consumption and extended temperature range.

With surface mounted technology, the low profile and small size of LCC package make M95-R easily embedded into the low volume 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 DFOTA technology allows M95-R 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.

M95-R's compact size and ultra low power consumption makes it 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.

Key Features

- ✔ Highly compact Quad-band GSM/GPRS module
- ✔ Easier soldering process with LCC package
- ✔ Embedded Class-AB amplifier
- ✔ Power consumption as low as 1.3 mA
- ✔ Embedded powerful Internet service protocols, multiple sockets & IP addresses
- ✔ QuecFOTA™
- ✔ DTMF
- ✔ QuecLocator®
- ✔ DFOTA

Quad-band

GPRS Multi-slot Class 12

Extended Temperature Range -40 °C to +85 °C

Highly Compact Size

LCC Package

Embedded Internet Services Protocols

Serial Port

Version: 1.0 | Status: Released

GSM	M95-R
Region/Operator	Europe/Russia/Brazil/South Africa
Dimensions (mm)	23.6 × 19.9 × 2.65
Temperature Range	
Operating Temperature	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C
Frequency Bands	
Quad-band	850/ 900/ 1800/ 1900 MHz
Certifications	
Regulatory	**Global:** CE*
Data Rates	
GPRS (kbps)	Max. 85.6 (DL)/ 85.6 (UL)
PBCCH Coding Schemes	CS-1, CS-2, CS-3, CS-4
USSD	●
Non-transparent Mode	●
Interfaces	
(U)SIM	× 1, 3.0 V/ 1.8 V
UART	× 2
Analog Audio	× 2 (Embedded a Class-AB Amplifier in One Channel)
Antenna	× 1
RTC Backup	× 1
Enhanced Features	
DTMF	●
DFOTA	●
Audio Play/ Audio Recording	Optional
QuecLocator®	●
Dual SIM Single Standby	●
MUX	●
Software Features	
Protocols	PPP/ TCP/ UDP/ FTP/ HTTP/ SSL/ MUX
Sensitivity	
GSM850	< -108 dBm
GSM900	< -108 dBm
DCS1800	< -107 dBm
PCS1900	< -107 dBm
Electrical Features	
Supply Voltage Range	3.45–4.25 V, typ. 4.0 V
Output Power	Class 4 (2W @ 850/900 MHz)
	Class 1 (1W @1800/1900 MHz)
Power Consumption (Typical)	1.4 mA @ DRX = 5 1.3 mA @ DRX = 9

NOTE:
1. *: under development.
2. ●: supported.

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