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 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 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.

Key Benefits

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

EMAIL US: info@quectel.com
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**Quad-band GSM/GPRS Module**

**Frequency Band**
Quad-band:
850/ 900/ 1800/ 1900MHz

**Data**
GPRS Class 12:
Max. 8.56kbps (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:
Dual (U)SIM Card 3.0V/ 1.8V
UART:
× 2 Interfaces
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
QuecFOTA™
QueCell
QueLocator
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
Temperature Range: -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

**Enhanced Features**
eCall
Jamming Detection
DTMF
Audio Play/ Audio Record
Dual-SIM
QuecFOTA™
QueCell
QueLocator
RIL for Android
MUX

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

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