**Key benefits**

- One of the smallest Quad-band GSM/GPRS modules
- 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

M95 is one of the smallest Quad-band GSM/GPRS modules in LCC castellation packaging in the market. It adopts the latest MTK chipset and features compact size of 19.9 × 23.6 × 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 stack, 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 tiny 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.
**General Features**

- **Quad-band**: 850/900/1800/1900MHz
- **GPRS Multi-slot Class**: 12, 1~12 configurable
- **GPRS Mobile Station**: Class B
- **Compliant to GSM Phase 2/2+**: Class 4 (2W @ 850/900MHz), Class 1 (1W @ 1800/1900MHz)
- **Supply Voltage Range**: 3.3~4.6V, 4.0V nominal
- **Low Power Consumption**: 1.3mA @ DRX=5, 1.2mA @ DRX=9
- **Operation Temperature**: -40 °C to +85 °C
- **Dimensions**: 19.9 × 23.6 × 2.65mm
- **Weight**: Approx. 3.0g
- **Control via AT commands**: GSM 07.07, 07.05 and other enhanced AT Commands

**Specifications for 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**

- **SIM/USIM**: Dual SIM 3V/1.8V
- **UART**: 2 Interfaces
- **Analog Audio Channel**: 2 Embedded Class-AB amplifier in one channel
- **PCM**
- **RTC Backup**
- **Antenna Pad**

**Specifications for Data**

- **GPRS Class 12**: Max. 85.6 kbps (uplink & downlink)
- **PBCCH Support**
- **Coding Schemes**: CS 1, 2, 3, 4
- **USSD**
- **Non Transparent Mode Protocols**: PPP/TCP/UDP/FTP/HTTP/SMTP/SSL/MUX

**Specifications for SMS via GSM/GPRS**

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