

Quectel M95

Quad-band GSM/GPRS Module

GSM/GPRS



Quad-band



GPRS Multi-slot
Class 12



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



Highly Compact Size



LCC Type



Embedded Internet
Services Protocols



Serial Port
Multiplexer GSM 0710



PCM



M95 is one of the smallest Quad-band GSM/GPRS modules in LCC castellation packaging in the market. It adopts the latest MTK chip-set 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.

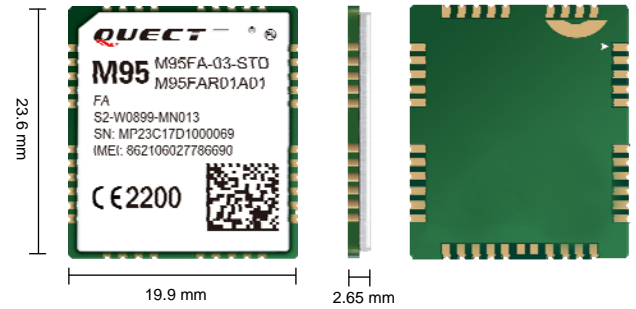
Its tiny size and ultra low power consumption makes M95 a very cost effective and feature-rich platform that is quite suitable for a wide range of M2M applications such as VTS, Industry PDA, Personal Tracking, Wireless POS, Smart Metering and many other M2M applications.

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

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Quad-band GSM/GPRS Module



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 x 23.6 x 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

Certificates

CE FCC GCF PTCRB NCC ANATEL IC ICASA UCRF A-Tick
Vodafone Rogers

Specifications for SMS via GSM/GPRS

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