Quectel M95

Quad-band GSM/GPRS Module

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

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 / ERA-GLONASS (Supported in specific firmware)
- QuecFOTA™
- Jamming detection
- DTMF decoding

M95 is one of the smallest Quad-band GSM/GPRS modules in LCC castellation packaging with the 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 makes M95 easily embedded into the low-volume applications and ensures 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.
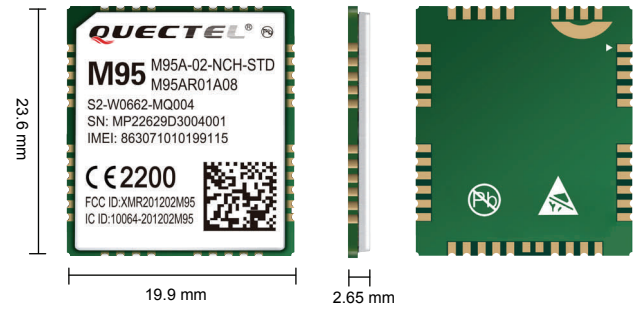
Built-in unique QuecFOTA™ technology allows M95 to update the firmware remotely. Additional features such as integrated TCP/IP protocol stack, serial multiplexer and enhanced AT commands guarantee fast and reliable transmission of data, voice, SMS via GSM/ GPRS network and extend the functionality of the application without adding 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.

QUECTEL
Wireless Module Expert

Quectel M95
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 Data

GPRS Class 12	Max. 85.6 kbps (uplink & downlink)
PBCCH Support	
Coding Schemes	CS 1, 2, 3, 4
CSD	Up to 14.4 kbps
USSD	
Non Transparent Mode	
Protocols	PPP/TCP/UDP/FTP/HTTP/SMTP/MUX

Specifications for SMS via GSM/GPRS

Point-to-point MO and MT

SMS Cell Broadcast

Text and PDU Mode

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	3V/ 1.8V
UART	2 Interfaces
Analog Audio Channel	2 Embedded Class-AB amplifier in one channel
RTC Backup	
Antenna Pad	

Certificates

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