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



Serial Port Multiplexer GSM 0710



PCM

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
- Q DTMF
- Queclocator



M95 is one of the smallest Quad-band GSM/GPRS modules in LCC castellation packaging in the market. It adopts the laestest MTK chipset ands features compact size of 19.9 x 23.6 x 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 QuecFOTATM 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.



Quectel M95 Quad-band GSM/GPRS Module



General Features

Supply Voltage Range

Quad-band 850/900/1800/1900MHz
GPRS Multi-slot Class 12, 1~12 configurable

GPRS Mobile Station Class B
Compliant to GSM Class 4

Compliant to GSM Class 4 (2W @ 850/ 900MHz)

Class 1 (1W @ 1800/1900MHz)

3.3~4.6V 4.0V nominal

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

USSD

Non Transparent Mode

Protocols PPP/TCP/UDP/FTP/HTTP/SMTP/SSL/MUX

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

PCM

RTC Backup Antenna Pad

SIM/ USIM Dual SIM 3V/ 1.8V
UART 2 Interfaces

Analog Audio Channel

2

Embedded Class-AB amplifier in one channel

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

