

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 19.9 mm × 23.6 mm × 2.65 mm, 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



Quad-band

GPRS Multi-slot
Class 12Extended Temperature
Range -40 °C to +85 °C

Highly Compact Size



LCC Type

Embedded Internet
Services Protocols

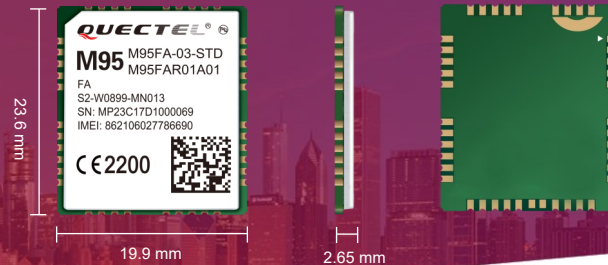
Serial Port



PCM

Quectel M95

Quad-band GSM/GPRS Module



Frequency Band

Quad-band:

850/ 900/ 1800/ 1900 MHz

Data

GPRS Class 12:

Max. 85.6 kbps (Uplink & Downlink)

PBCCCH

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:

× 2, (U)SIM 3.0 V/ 1.8 V

UART:

× 2

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 Single Standby

QuecFOTA™

QuecCell

RIL for Android

MUX

Electrical & Sensitivity

Output Power:

Class 4 (2W @ 850/ 900 MHz)

Class 1 (1W @1800/ 1900 MHz)

Consumption:

1.3mA @ DRX = 5

1.2mA @ DRX = 9

Sensitivity:

GSM850: -109 dBm

GSM900: -109 dBm

DCS1800: -109 dBm

PCS1900: -109 dBm

Supply Voltage:

3.3 V~4.6 V, 4.0 V 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

Extended Temperature: -40 °C ~ +85 °C

Dimensions: 19.9 mm × 23.6 mm × 2.65 mm

LCC Package

Weight: Approx. 3.0 g

GSM 07.07, 07.05 and other Enhanced AT

Commands