

## **Quectel M66**

## Ultra-small Quad-band GSM/GPRS Module



M66 is an ultra-small quad-band GSM/GPRS module using LCC castellation packaging on the market. Based on the latest 2G chipset, it has the optimal performance in SMS & Data transmission and audio service even in harsh environment. The ultra-compact  $15.8 \, \mathrm{mm} \times 17.7 \, \mathrm{mm} \times 2.3 \, \mathrm{mm}$  profile makes it a perfect platform for size sensitive applications.

M66 adopts surface mount technology, making it an ideal solution for durable and rugged designs. The low profile and small size of LCC package makes sure M66 can be easily embedded into size-constrained applications, and provides reliable connectivity with applications. This kind of package is ideally suited for large-scale manufacturing which has strict requirements for cost and efficiency.

The compact form factor, low power consumption and extended temperature make M66 a best choice for M2M applications such as wearable devices, automotive, industrial PDA, personal tracking, wireless POS, smart metering, telematics, and more.



## Key Benefits

- Extremely compact quad-band GSM/GPRS module
- Easier soldering process with LCC package
- Power consumption as low as 1.3mA
- ✓ Support Voice, Bluetooth, QuecFOTA<sup>™</sup> and Quectel OpenCPU functions
- Embedded powerful Internet service protocols, multiple Sockets & IP addresses



Quad-band



GPRS Multi-slot Class 12



Extended Temperature Range: -40°C ~ +85°C



Highly Compact Size



LCC Package



Embedded Internet Services Protocols



Quectel Enhanced



Digital Audio

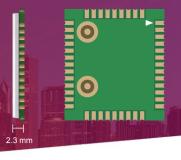


Bluetooth 3.0

## **Quectel M66**

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**Frequency Band** 

Quad-band:

850/900/1800/1900MHz

Data

GPRS Class 12:

Max. 85.6kbps (Downlink) Max. 85.6kbps (Uplink)

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:

3.0V/ 1.8V UART × 3

Analog Audio Channel:

2 Output Channels and 1 Input Channel

Bluetooth:

BT 3.0

Profile: SPP, HFP

PCM × 1

RTC × 1

Antenna Pad:

 $\times$  2 (GSM Antenna Pad and Bluetooth Antenna

Pad)

**Enhanced Features** 

eCall

Jamming Detection

DTMF

Audio Play/ Audio Record

QuecFOTA<sup>TM</sup>
QuecCell
QuecLocator
QuecFile
OpenCPU<sup>TM</sup>

RIL for Android

MUX Bluetooth

**Electrical & Sensitivity** 

Output Power:

Class 4 (2W @850/ 900MHz)

Class 1 (1W @1800/ 1900MHz)

Consumption:

1.3mA @DRX=5 1.2mA @DRX=9

Sensitivity:

GSM900: -109dBm DCS1800: -109dBm PCS1900: -109dBm Supply Voltage:

GSM850: -109dBm

3.3V~4.6V, 4.0V Typ.

**Software Features** 

BT3.0

Protocols: TCP/ UDP/ PPP/ FTP/ HTTP/ SMTP/

CMUX/ SSL

**General Features** 

GPRS Multi-slot Class: Class 12 GPRS Mobile Station: Class B

Extended Temperature: -40°C  $\sim +85$ °C Dimensions: 17.7mm  $\times$  15.8mm  $\times$  2.3mm

LCC Package

Weight: Approx. 1.3g

GSM 07.07, 07.05 and other Enhanced AT

Commands

**Approvals** 

RoHS Compliant

CE/UCRF (Europe)

DoC (Russia)

Anatel (Brazil)

ICASA (South Africa)

