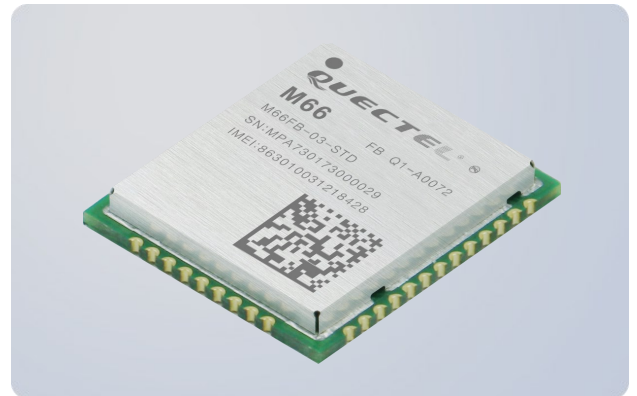


# Quectel M66 R2.0

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



M66 R2.0 is an ultra-compact quad-band GSM/GPRS module using LCC castellation packaging. Based on the latest 2G chipset, it has the optimal performance in SMS & data transmission and audio service even in harsh environment. The highly compact 17.7mm × 15.8mm × 2.3mm profile makes it a perfect selection for size sensitive applications.

M66 R2.0 adopts surface mounted technology, making it an ideal solution for durable and rugged designs. The low profile and small size of LCC package ensure it 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 range make M66 R2.0 a best choice for M2M applications such as wearable devices, automotive, industrial PDA, personal tracking, wireless POS, smart metering, telematics, and so on.



### Key Benefits

- ✓ Extremely compact quad-band GSM/GPRS module
- ✓ Easier soldering process with LCC package
- ✓ Power consumption as low as 1.3mA
- ✓ Support Voice and QuecFOTA® 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  
AT Commands



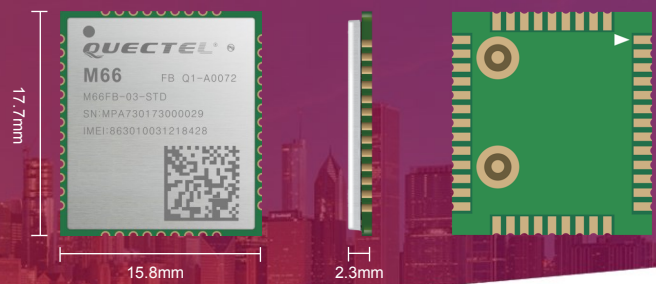
Digital Audio



Bluetooth 3.0

# Quectel M66 R2.0

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



### Frequency Bands

#### Quad-band:

850/900/1800/1900MHz

### Data

#### GPRS Class 12:

Max. 85.6kbps (Downlink)

Max. 85.6kbps (Uplink)

#### Coding Schemes:

CS-1, CS-2, CS-3, CS-4

#### USSD

#### Non-transparent Mode

### SMS

Point-to-point MO and MT

SMS Cell Broadcast

Text and PDU Modes

### 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 Interface:

3.0V/ 1.8V

UART × 3

#### Analog Audio Channels:

2 Output Channels and 1 Input Channel

PCM × 1

RTC × 1

ADC × 1

SD Card × 1 (Multiplexed from PCM)

#### Bluetooth:

BT 3.0 (Profile SPP, HFP, OPP)

#### Antenna Pads:

× 2 (GSM and Bluetooth antennas)

### Enhanced Features

eCall

Jamming Detection

DTMF

Audio Play/ Audio Recording

QuecFOTA®

QuecLocator®

QuecCell

QuecFile

RIL for Android

CMUX

### Electrical & Sensitivity

#### Output Power:

Class 4 (2W @850/900MHz)

Class 1 (1W @1800/1900MHz)

#### Consumption:

1.3mA @DRX=5

1.2mA @DRX=9

#### Sensitivity:

GSM850: -109dBm

GSM900: -109dBm

DCS1800: -109dBm

PCS1900: -109dBm

#### Supply Voltage:

3.3V~4.6V, 4.0V Typ.

### Software Features

#### Protocols:

TCP/ UDP/ PPP/ FTP/ HTTP(S)/ SMTP(S)/ CMUX/

SSL/ MQTT

### General Features

#### GPRS Multi-slot Class:

Class 1~12 (12 by default)

#### GPRS Mobile Station:

Class B

#### Operation Temperature Range:

-35°C ~ +75°C

#### Extended Temperature Range:

-40°C ~ +85°C

#### Dimensions:

17.7mm × 15.8mm × 2.3mm

#### Weight:

Approx. 1.2g

LCC Package

GSM 07.07, 07.05 and Other Enhanced AT

Commands

### Approvals

#### Regulatory:

CE (Europe)

#### Others:

RoHS

\* Under Development