

Quectel M66

Ultra-small Quad-band GSM/GPRS Module



M66 is an ultra-small quad-band GSM/GRPS 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 15.8mm × 17.7mm × 2.3mm 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™ 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 AT Commands



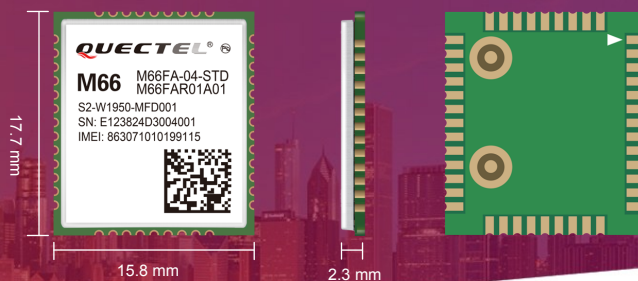
Digital Audio



Bluetooth 3.0

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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:

× 2 (GSM Antenna Pad and Bluetooth Antenna Pad)

Enhanced Features

eCall

Jamming Detection

DTMF

Audio Play/ Audio Record

QuecFOTA™

QuecCell

QuecLocator

QuecFile

OpenCPU™

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:

GSM850: -109dBm

GSM900: -109dBm

DCS1800: -109dBm

PCS1900: -109dBm

Supply Voltage:

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 ~ +85°C

Dimensions: 17.7mm × 15.8mm × 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)