

# Quectel M66

## The World's Smallest LCC Quad-band GSM/GPRS Module



Quad-band

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

Highly Compact Size



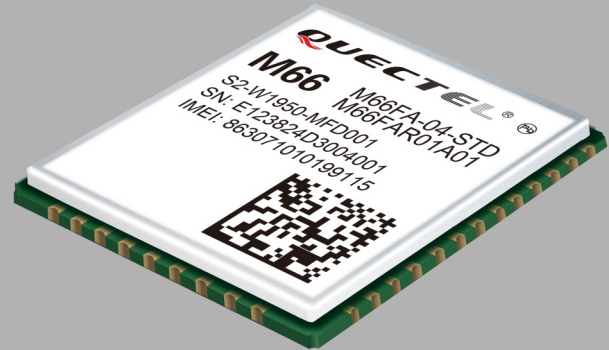
LCC Type

Embedded Internet  
Services ProtocolsQuectel Enhanced  
AT Commands

Digital Audio



Bluetooth 3.0



### Key Benefits

- ☞ The globe's tiniest Quad-band LCC GSM/GPRS module
- ☞ Easier soldering process with LCC package
- ☞ Power consumption as low as 1.3mA
- ☞ Support Voice, Bluetooth, QuecFOTA™ and Quectel OpenCPU function
- ☞ Embedded powerful Internet service protocols, multiple Sockets & IP addresses

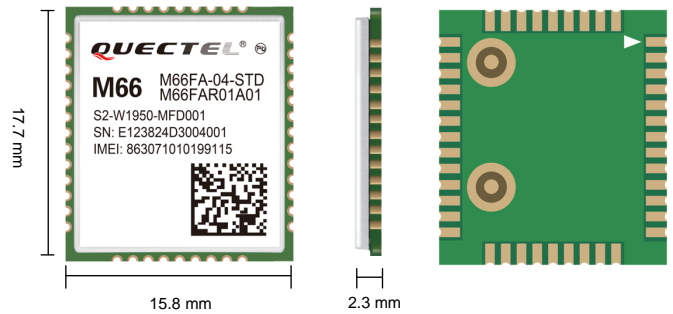
M66 is currently the smallest Quad-band GSM/GRPS module using LCC castellation packaging on the market. Based on the latest 2G chipset, it has the optimal performance in SMS & Data transmission and audio service even in harsh environment. Its ultra-compact 15.8 × 17.7 × 2.3mm profile makes M66 a perfect platform for size sensitive applications.

M66 adopts surface mounted technology, making it the ideal solution for durable and rugged designs. And its low profile and small size of LCC package ensure M66 easily embedded into the low-volume applications and provide 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.

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

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## The World's Smallest LCC Quad-band GSM/GPRS Module



### General Features

<b>Quad-band</b>	850/900/1800/1900MHz
<b>GPRS Multi-slot Class</b>	Class 12
<b>GPRS Mobile Station</b>	Class B
<b>Compliant to GSM Phase 2/2+</b>	Class 4 (2W @850/900MHz) Class 1 (1W @1800/1900MHz)
<b>Supply Voltage Range</b>	3.3~4.6V 4.0V Typ.
<b>Low Power Consumption</b>	1.3mA @DRX=5 1.2mA @DRX=9
<b>Operation Temperature</b>	-40 °C ~ +85 °C
<b>Dimensions</b>	17.7 × 15.8 × 2.3mm
<b>Weight</b>	Approx. 1.3g
<b>Control via AT Commands</b>	GSM 07.07, 07.05 and other enhanced AT Commands

### Specifications for Data

<b>GPRS Class 12</b>	85.6kbps (Downlink) 85.6kbps (Uplink)
<b>PBCCH support</b>	
<b>Coding Schemes</b>	CS 1, 2, 3, 4
<b>USSD</b>	
<b>Non Transparent Mode</b>	
<b>Protocols</b>	TCP/UDP/PPP/FTP/HTTP/SMTP/CMUX/SSL

### Specifications for SMS

Point-to-point MO and MT  
SMS Cell Broadcast  
Text and PDU Mode

### Specifications for Voice

<b>Speech Codec Modes</b>	Half Rate (HR) Full Rate (FR) Enhanced Full Rate (EFR) Adaptive Multi-Rate (AMR)
<b>Echo Arithmetic</b>	Echo Cancellation Echo Suppression Noise Reduction

### Interfaces

<b>SIM/USIM</b>	3V/1.8V
<b>UART</b>	×3
<b>Analog Audio Channel</b>	2 output channels and 1 input channel
<b>Bluetooth</b>	BT 3.0 Profile: SPP, HFP
<b>ADC</b>	×1
<b>PCM</b>	×1
<b>RTC</b>	×1
<b>Antenna PAD</b>	×2 (One for GSM antenna, the other for Bluetooth antenna)