Quectel M66

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

4
Quad-band

GPRS Multi-slot Class 12

Extended Temperature Range -40°C to +85°C

Highly Compact Size

LCC
LCC Type

Embedded Internet Services Protocols

AT
Quectel Enhanced AT Commands
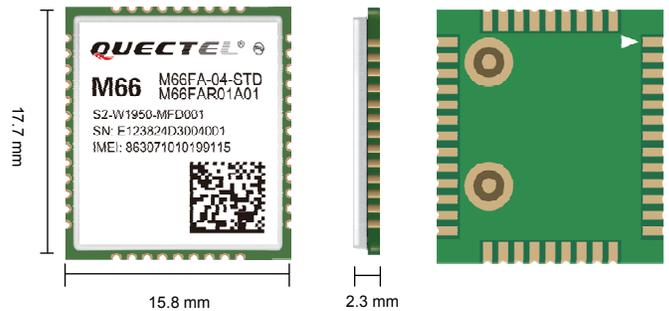
Digital Audio

Bluetooth 3.0*

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.

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[TM] and Quectel OpenCPU function*

- Embedded powerful Internet service protocols, multiple Sockets & IP addresses

QUECTEL
Wireless Module Expert

Quectel M66
The World's Smallest LCC Quad-band GSM/GPRS Module

17.7 mm

15.8 mm   2.3 mm

General Features

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

Specifications for Data

GPRS Class 12	85.6kbps (Downlink) 85.6kbps (Uplink)
PBCCH support	
Coding Schemes	CS 1, 2, 3, 4
USSD	
Non Transparent Mode	
Protocols	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

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

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

∗ Under development