

Quectel M66-DS

The Ultra-small Dual SIM Dual Standby 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 Protocols

DSDS



Digital Audio



Bluetooth 3.0*



M66-DS is an ultra-small Dual SIM Dual Standby quad-band GSM/GPRS module using LCC castellation package. Based on the latest 2G chipset, it has the optimal performance in SMS & data transmission and audio service even in harsh environment. The Dual SIM Dual Standby function allows customers to use two SIM cards in one device simultaneously. The ultra-compact 15.8 × 17.7 × 2.3mm profile makes M66-DS a perfect platform for size sensitive applications.

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

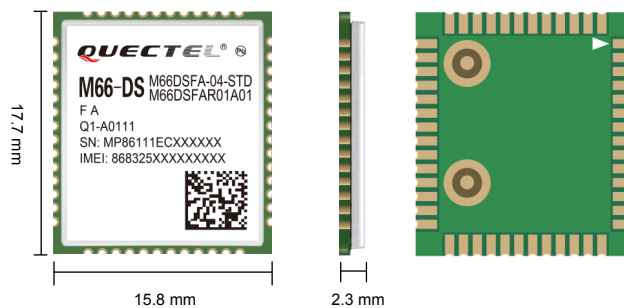
The compact form factor, low power consumption and two SIM card interfaces make M66-DS the best choice for applications such as wearable device, automotive, industrial PDA, personal tracking, wireless POS, smart metering, telematics and other M2M applications.

Key Benefits

- ☞ Ultra compact form factor with Dual SIM Dual Standby (DSDS) feature
- ☞ Easier soldering process with LCC package
- ☞ Power consumption as low as 1.3mA
- ☞ Support Voice, Bluetooth and QuecFOTA™
- ☞ Embedded powerful Internet service protocols, multiple Sockets & IP addresses

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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*/DSDS

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

* Under development