

# 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.

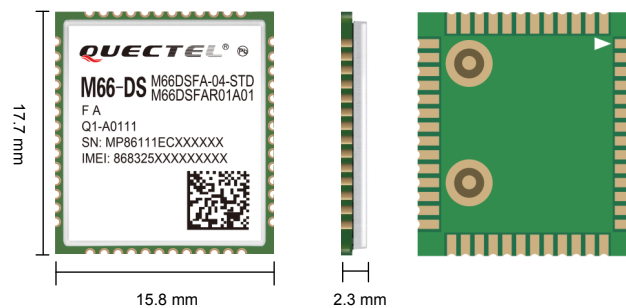
The compact form factor, low power consumption and two SIM card interfaces make M66-DS the best choice for applications such as wearable device, automotive, industrial PDA, personal tracking, wireless POS, smart metering, telematics and other M2M applications.

### 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

# Quectel M66-DS

## The Ultra-small Dual SIM Dual Standby 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 nominal
<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*/DSDS

### Specifications for SMS

<b>Point-to-point MO and MT</b>
<b>SMS Cell Broadcast</b>
<b>Text and PDU Mode</b>

### 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>	×2 (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>SD*</b>	×1
<b>RTC</b>	×1
<b>Antenna PAD</b>	×2 (One for GSM antenna, and the other for Bluetooth antenna)

\* Under development