Quectel M66-DS

Ultra-small
Dual SIM Dual Standby
Quad-band GSM/GPRS Module

M66-DS is an ultra-small Dual SIM Dual Standby quad-band GSM/GRPS 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 (U)SIM cards in one device simultaneously. The ultra-compact 15.8mm × 17.7mm × 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 provides 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 (U)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

Quad-band

GPRS Multi-slot Class 12

Extended Temperature Range: -40°C ~ +85°C

Highly Compact Size

LCC Package

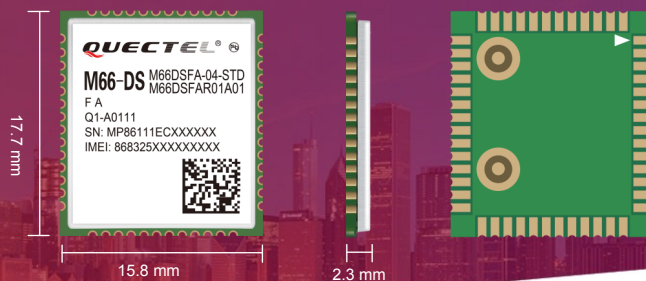Embedded Internet Services Protocols

DSDS

Digital Audio

Bluetooth 3.0

Quectel M66-DS

Ultra-small
Dual SIM Dual Standby
Quad-band GSM/GPRS Module

M66-DS M66DSFA-04-STD
M66DSFAR01A01
F A
Q1-A0111
SN: MP86111ECXXXXXX
IMEI: 868325XXXXXXXXX

17.7 mm

15.8 mm

2.3 mm

Frequency Band

Quad-band:

850/ 900/ 1800/ 1900MHz

Data

GPRS Class 12:

Max. 85.6kbps (Downlink)

Max. 85.6kbps (Uplink)

PBCCH

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:

× 2 (3.0V/ 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 (GSM Antenna Pad and Bluetooth Antenna

Pad)

Enhanced Features

DSDS

eCall

Jamming Detection

DTMF

Audio Play/ Audio Record

QuecFOTA^{TM}

QuecCell

QuecLocator

QuecFile

OpenCPU^{TM}

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

BT 3.0

Protocols: TCP/ UDP/ PPP/ FTP/ HTTP/ SMTP*/

CMUX/ DSDS

General Features

GPRS Multi-slot Class: Class 12

GPRS Mobile Station: Class B

Temperature Range: -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

* Under Development

QUECTEL

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Quectel:

  M66DSFA-04-STDN M66DSFA-04-STD