

M80

Quad Band GSM/GPRS Module

QUECTEL

Wireless Module Expert



Quad Band



Highly Compact Size



GPRS Multi-slot Class 12



Extended Temperature Range



Dual SIM Card Interfaces



SD Card Interface



USB Interface



Serial Port Multiplexer (GSM0710)



Embedded Internet Service Protocols



M80 is one of the smallest Quad-band 850/900/1800/1900 GSM/GPRS surface mounted modules in the world. With LGA package technology, M80 provides the ultra tiny configuration of **23 x 25 x 2.6mm** and can be embedded in customer applications, offering the highest reliability and robustness.

Featuring an industry-standard interface, M80 delivers GSM/GPRS performance for Data, Voice, SMS and Multi-media with extremely low power consumption, extended temperature and compact profile. The ultra compact size with abundant function interfaces and integrated protocols, can almost meet all the M2M requirements, including VTS, Personal Tracking, Security, Wireless POS, Industrial PDA, Smart Metering and many other M2M applications.

M80 offers fully integrated access to Quectel GPS receivers. A Quectel host-based GPS module can be controlled through a single serial port, offering cost effective GSM/GPS solution and enabling short time-to-market.

- Quad-band GSM/GPRS module with a size of 23 x 25 x 2.6mm
- Abundant function interfaces
- Support 0.3M pixel camera interface
- Support OpenCPU (Optional)
- Innovative LGA Package
- Embedded powerful internet service protocols, multiple Sockets & IP addresses
- Based on mature and field-proven platform, backed up by our support service, from definition to design and production

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Quad Band GSM/GPRS Module

General Features

Quad Band	850/900/1800/1900 MHz
GPRS Multi-slot Class	12, 1~12 configurable
GPRS Mobile Station	Class B
Compliant with GSM Phase 2/2+	Class 4 (2W @850/900 MHz) Class 1 (1W @1800/1900 MHz)
Supply Voltage Range	3.3~4.6 V 4.0V nominal
Low Power Consumption	1.1mA@DRX=5 0.95mA@DRX=9
Operation Temperature	-45 °C ~ +85 °C
Dimensions	23mm × 25mm × 2.6mm
Weight	Approx 3.3g
Control via AT commands (GSM 07.07 ,07.05 and other enhanced AT Commands)	
SIM Application Toolkit	

Specifications for Fax

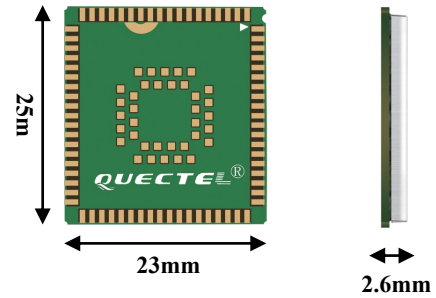
Group 3, Class 1& 2

Specifications for Data

GPRS Class 12	Max. 85.6 kbps (uplink & downlink)
PBCCH Support	
Coding Schemes	CS 1, 2, 3, 4
CSD	Up to 14.4 kbps
USSD	
Non Transparent Mode	
Protocols	PPP, TCP UDP, FTP MMS, MUX HTTP*, SSL* POP3*, SMTP* TTS*

Specifications for SMS

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



Specifications for Voice

Speech Codec Mode	Half Rate (HR) Full Rate (FR) Enhanced Full Rate (EFR) Adaptive Multi-Rate (AMR)
Echo Arithmetic	Echo Cancellation Echo Suppression Noise Reduction

Interfaces

External SIM	Dual interfaces*, 3V/1.8V
ADC	2 inputs
UART Interface	3 interfaces
Analog Audio Interface	2 inputs, 3 outputs Embedded Class-AB amplifier
SD Card Interface*	Up to 32GB
USB Interface	
Camera Interface*	0.3M Pixels
RTC Backup	
PCM Interface*	
Antenna Pad	
Charge Interface*	
GPIO	Up to 15 lines

*Supported later

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