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Wireless makes smarter
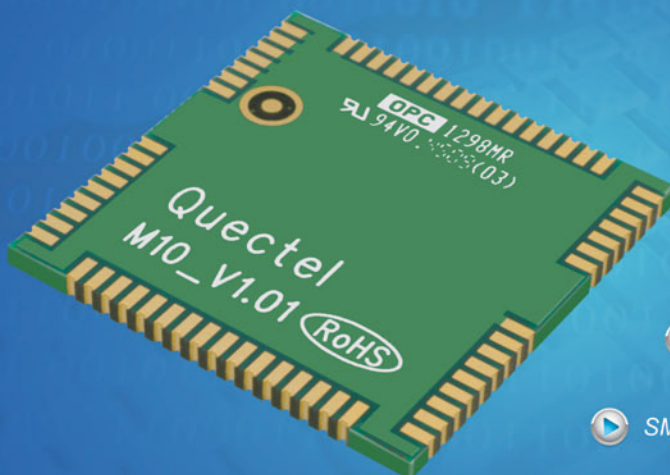
M10

Quad Band GSM/GPRS Module

▶ Quad Band

▶ GPRS Multi-slot Class 12

▶ Extended Temperature Range -45 °C to +85 °C

▶ Highly Compact Size

▶ RoHS Compliant

▶ SMD Type

▶ Embedded TCP/IP

▶ Serial Port Multiplexer (GSM0710)

▶ Quectel Enhanced AT Commands

The M10 is a complete Quad-band GSM/GPRS solution in an SMD type which can be embedded in customer application, offering the highest reliability and robustness.

Featuring an industry-standard interface, the M10 delivers GSM/GPRS 850/900/1800/1900MHz performance for voice, SMS, Data, and Fax in a small form factor and with extremely low power consumption. With a tiny configuration of 29mm x 29mm x 3.6mm, the M10 can fit into almost all the M2M applications, including VTS, Smart Metering, Wireless POS, Security, etc.

- Quad-band GSM/GPRS module with a size of 29mmx29mmx3.6mm
- SMD type suit for customer application
- Embedded powerful Internet service protocols
- Based on mature and field-proven platform, backed up by our support service, from definition to design and production

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M10
Quad Band GSM/GPRS Module

29 mm
29 mm
3.6 mm

General Features

Quad-Band	850/ 900/ 1800/ 1900 MHz
GPRS Multi-slot Class	12/10/8
GPRS Mobile Station	Class B
Compliant To GSM Phase 2/2+	Class 4 (2W @850/ 900 MHz) Class 1 (1W @1800/1900MHz)
Supply Voltage Range	3.4~4.5 V 4.0V nominal
Low Power Consumption	1.1mA @ DRX=5 0.7mA @ DRX=9
Operation Temperature	-45 °C to +85 °C
Dimensions	29mmx29mmx3.6mm
Weight	Approx 6g
Control Via AT Commands	GSM 07.07 ,07.05 Enhanced AT commands SIM application toolkit

Specifications for Fax and Data

Fax	Group 3, Class 1 & 2
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/IP HTTP FTP MMS

Specifications for SMS via GSM / GPRS

- Point-to-point MO and MT
- SMS cell broadcast
- Text and PDU mode
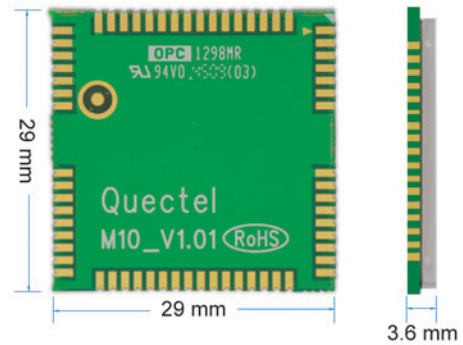
Specifications for Voice

Speech Codec Modes	Half Rate (HR) Full Rate (FR) Enhanced Full Rate (EFR) AMR Half Rate AMR Full Rate
Echo Arithmetic	Echo Cancellation Echo Suppression Noise Reduction
Hands-Free Operation	

Interfaces

External SIM	3V/1.8V
Analog Audio Interfaces	Two channels
Serial Interfaces	Two
RTC Backup	
Keypad Interface	
LCD Interface	
Antenna Pad	
GPIOs	
Charge Interface	Optional

Compatibility

Drivers	MUX Driver
Compatibility	AT cellular command interface

Approvals

- CE - FCC - GCF - PTCRB - China TA

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