

Quectel M10

Quad-band GSM/ GPRS Module

GSM/ GPRS



Quad-band



GPRS Multi-slot
Class 12



Extended Temperature
Range -40°C to +85°C



Serial Port
Multiplexer GSM 0710



LCC Type



Embedded Internet
Services Protocols



Quectel Enhanced
AT Commands



RoHS Compliant



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

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

M10 supports an important remote upgrade technology which named QuecFOTA. With the unique Quectel protocol, the new firmware of M10 will be perfectly updated by MCU via UART, and this can greatly solve the worries for M2M applications.

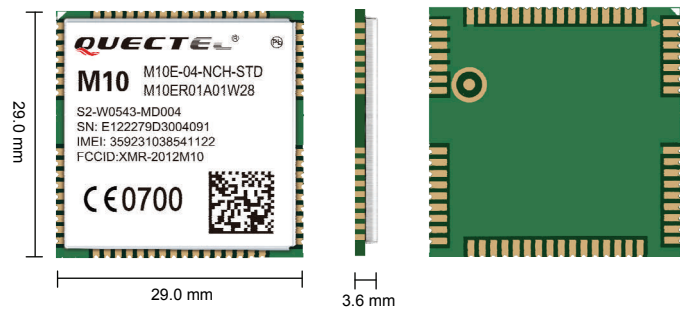
As a part of Quectel's corporate policy of environmental protection, all products comply to the RoHS (Restriction of Hazardous Substances) directive of the European Union (EU Directive 2002/95/EG).

Key benefits

- ☛ Quad-band GSM/GPRS module with a size of 29.0 x 29.0 x 3.6mm
- ☛ LCC type suits for customer application
- ☛ 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
- ☛ Certificates: CE/ GCF/ FCC/ PTCRB/ IC/ANATEL/ NORM/ COFETEL/ ICASA/ NCC/ China TA

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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 to GSM Phase 2/2+	Class 4 (2W @ 850/ 900 MHz) 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 to +85 °C
Dimensions	29.0 x 29.0 x 3.6mm
Weight	Approx. 6.0g
Mux Driver	GSM 07.10
Control via AT commands	GSM 07.07 ,07.05 and other enhanced AT Commands
SIM Application Toolkit	

Specifications for Fax & 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/ UDP/ HTTP/ FTP/ MMS/ SMTP/ MUX

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
RTC Backup	
SD Card Interface	
Serial Port and Debug Port	
Antenna Pad	
GPIOs	

Certifications

CE	FCC	GCF	ICASA	PTCRB	UCRF
IC	NCC	NAL	Rogers	ANATEL	China TA