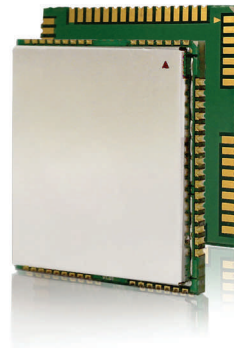


# QUECTEL

*Wireless makes smarter*

## M12

### Dual-Band GSM/GPRS Module



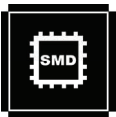
Dual Band



GPRS Multi-slot Class 12



Highly Compact Size



SMD Type



Embedded TCP/IP  
Protocols



RoHS Compliant



Serial Port  
Multiplexer (GSM0710)



Quectel Enhanced AT  
Commands

The M12 is a dual-band GSM/GPRS wireless module in SMD type. It is pin-to-pin compatible with the M10 quad-band module. The M12 can be embedded in customer applications, offering good reliability and robustness.

Featuring an industry-standard interface, the M12 delivers GSM/GPRS 900/1800MHz performance for voice, SMS, Data, and Fax in a small form factor with extremely low power consumption. With a tiny configuration of **29mm x 29mm x 3.6mm**, the M12 can fit into almost all M2M applications, including VTS, AMR, Wireless POS, Security, etc.

- Dual-band GSM/GPRS module with a size of 29mmx29mmx3.6mm
- SMD type suits for customer application
- Embedded TCP/IP protocol
- Based on mature and field-proven platform

# M12

## Dual-Band GSM/GPRS Module

### General Features

<b>Dual-Band</b>	900/ 1800MHz
<b>GPRS Multi-slot Class</b>	12/10/8
<b>GPRS Mobile Station Class</b>	Class B
<b>Compliant to GSM Phase 2/2+</b>	Class 4 (2W @ 900 MHz)  Class 1 (1W @1800MHz)
<b>Supply Voltage Range</b>	3.4~4.5 V 4.0V nominal
<b>Low Power Consumption</b>	1.1mA @ DRX=5 0.7mA @ DRX=9
<b>Operation Temperature</b>	-30 °C to + 75 °C
<b>Dimensions</b>	29mm × 29mm × 3.6mm
<b>Weight</b>	Approx 6g
<b>Control via AT commands (GSM 07.07 ,07.05 and other enhanced AT Commands)</b>	
<b>SIM Application Toolkit</b>	

### Specifications for Fax

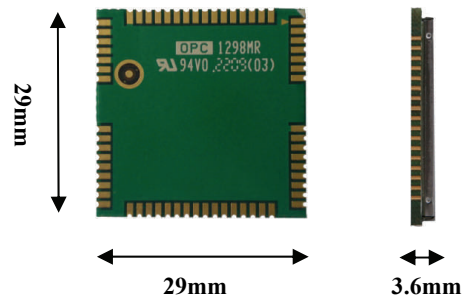
Group 3, Class 1 & 2

### Specifications for Data

<b>GPRS Class 12</b>	max. 85.6 kbps (uplink & downlink)
<b>PBCCH Support</b>	
<b>Coding Schemes</b>	CS 1, 2, 3, 4
<b>CSD</b>	up to 14.4 kbps
<b>USSD</b>	
<b>Non Transparent Mode</b>	
<b>Protocols</b>	PPP TCP/IP

### Specifications for SMS via GSM / GPRS

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



### Specifications for Voice

<b>Speech Codec Modes</b>	Half Rate (HR) Full Rate (FR) Enhanced Full Rate (EFR) AMR Half Rate AMR Full Rate
<b>Echo Arithmetic</b>	Echo Cancellation Echo Suppression Noise Reduction
<b>Hands-free Operation</b>	

### Interfaces

<b>External SIM</b>	3V/ 1.8V
<b>Analog Audio Interfaces</b>	Two channels
<b>RTC Backup</b>	
<b>Keypad Interface</b>	
<b>LCD Interface</b>	
<b>Serial Port and Debug Port</b>	
<b>Antenna Pad</b>	
<b>GPIOs</b>	

### Drivers

MUX Driver

### Compatibility

AT Cellular Command Interface

### Contact Us

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