



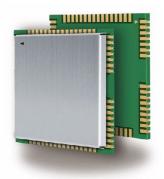






Wireless Module Expert

M12 Dual-Band GSM/GPRS Module





Dual Band



GPRS Multi-slot Class 12



SMD Type



Embedded TCP,PPP, UDP,FTP Protocols



RoHS Compliant



Serial Port Multiplexer (GSM0710)



Quectel Enhanced AT Commands

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

Featuring an industry-standard interface and extremely low power consumption, M12 delivers GSM/GPRS 900/1800MHz performance for Data, SMS, Fax and Voice in a small form factor. M12 can fit into almost all M2M applications, including VTS, Smart Metering, Wireless POS, Security, etc.

- Dual-band GSM/GPRS module with a size of 29mmx29mmx3.6mm
- SMD type for easier and cheaper SMT production
- Embedded powerful internet service protocols, multiple
 Sockets & IP addresses
- Based on mature and field-proven platform

M12

Dual-Band GSM/GPRS Module

General Features

Dual-Band 900/ 1800MHz

GPRS Multi-slot Class 12, 1~12 configurable

GPRS Mobile Station Class B
Compliant to GSM Class 4

Phase 2/2+ (2W @ 900 MHz)

Class 1

(1W @1800MHz)

Supply Voltage Range 3.3~4.6 V 4.0V nominal

Low Power Consump- 1.1mA @ DRX=5 tion

ture

0.95mA @ DRX=9

Operation Tempera-

-40 °C to + 80 °C

Dimensions 29mm × 29mm × 3.6mm

Weight Approx. 6g

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

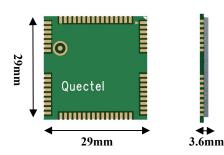
Protocols PPP

TCP/UDP HTTP FTP MMS SMTP

Specifications for SMS via GSM /

GPRS

Point-to-point MO and MT SMS Cell Broadcast



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

Keypad Interface

SD Card Interface

Serial Port and Debug Port

Antenna Pad

GPIOs

Drivers

MUX Driver

Compatibility

AT Cellular Command Interface

Contact Us

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