

QUECTEL
Wireless makes smarter

M20 *Quad Band GSM/GPRS Module*



Quad Band



GPRS Multi-slot Class 12



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



Highly Compact Size



Embedded Internet Services
Protocols



RoHS Compliant



Serial Port
Multiplexer (GSM0710)



Quectel Enhanced AT
Commands

The M20 is a complete Quad-band GSM/GPRS solution in a B2B connector type which can be embedded in customer application, offering the highest reliability and robustness.

Featuring an industry-standard interface, the M20 delivers GSM/GPRS 850/900/1800/1900MHz performance for voice, SMS, data, and fax in a small form factor with extremely low power consumption. With a tiny configuration of **35mm x 32.5mm x 2.95mm**, M20 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 35mmx32.5mmx2.95mm
- Board-to-board connector suits 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

M20

Quad Band GSM/GPRS Module

General features

Quad-Band	850/900/1800/1900MHz
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 35mm × 32.5mm × 2.95mm
Dimensions	(incl. B2B connector:3.1mm)
Weight	Approx 6g
Control via AT commands (GSM 07.07, 07.05 and other enhanced AT Commands)	
SIM application toolkit	

Specifications for fax

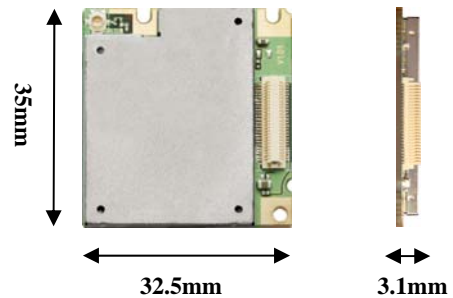
Group 3, class 1 & class 2

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

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

Hirose 50-pin B2B connector

Power supply

External SIM 3V/1.8V

Analog audio interfaces Two channels

PCM Interface (optional)

Serial port and debug port

Antenna connector and solder pad

Charge interface

Drivers

MUX Driver

Compatibility

AT cellular command interface

Contact us

Address Room 801, Building E, No.1618, Yishan Road, Shanghai, China

Email info@quectel.com

Tel +86 21 51082965

