

**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

<b>Quad-Band</b>	850/900/1800/1900MHz
<b>GPRS Multi-slot Class</b>	12/10/8
<b>GPRS Mobile Station</b>	Class B
<b>Compliant to GSM Phase 2/2+</b>	Class 4 (2W @850/ 900 MHz) Class 1 (1W @1800/1900MHz)
<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>	-45 °C to +85 °C 35mm × 32.5mm × 2.95mm
<b>Dimensions</b>	(incl. B2B connector:3.1mm)
<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

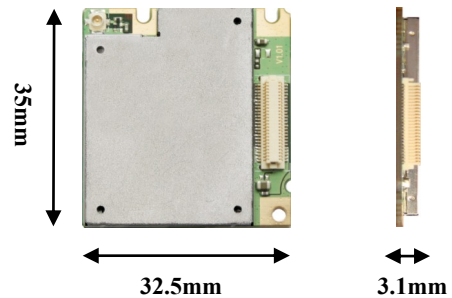
Group 3, Class 1 & Class 2

### 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/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

<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

### Hands-free Operation

### Interfaces

#### Hirose 50-pin B2B Connector

#### Power Supply

External SIM 3V/1.8V

Analog Audio Interfaces Two channels

#### PCM Interface

#### Serial Port and Debug port

Antenna Connector and Solder Pad

#### Charge Interface

### Drivers

MUX Driver

### Compatibility

AT Cellular Command Interface

### Contact Us

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