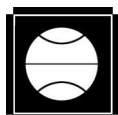**EN:** This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

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

35mm

32.5mm

3.1mm

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
Dimensions	35mm × 32.5mm × 2.95mm
	（incl. B2B connector:3.1mm)
Weight	Approx 6g

Control via AT commands (GSM 07.07, 07.05 and other enhanced AT Commands)
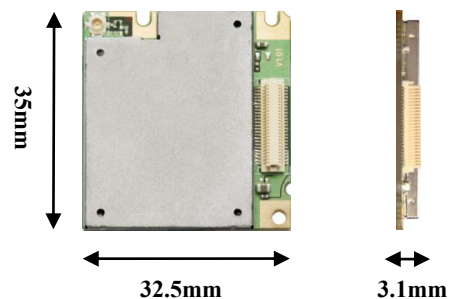
SIM Application Toolkit

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
Serial Port and Debug port
Antenna Connector and Solder Pad
Charge Interface

Drivers
MUX Driver

Compatibility

AT Cellular Command Interface

Contact Us

Address	Room 501, Building 13, No.99, Xian-zhou Road, Shanghai, China
Email	info@quectel.com
Tel	+86 21 51086236