

M20

Quad Band GSM/GPRS Module



- ▶ Quad Band
- ▶ GPRS Multi-slot Class 12
- ▶ Extended Temperature Range -45 °C to +85 °C
- ▶ Highly Compact Size
- ▶ RoHS Compliant
- ▶ Embedded Internet Services Protocols
- ▶ 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



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General Features

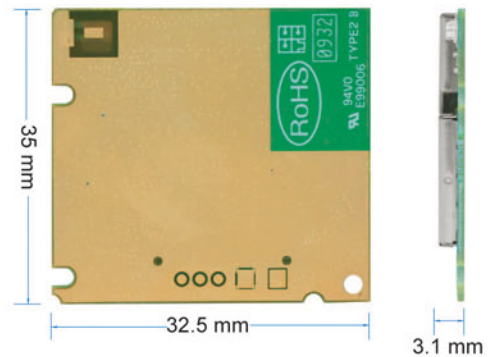
Quad-Band	850/ 900/ 1800/ 1900 MHz
GPRS Multi-Slot Class	12/10/8
GPRS Mobile Station	Class B
Compliant To GSM Phase 2/2+	Class 4 (2W @850/ 900 MHz) Class 1 (1W @1800/1900MHz)
Supply Voltage Range	3.4~4.5 V 4.0V nominal
Low Power Consumption	1.1mA @ DRX=5 0.7mA @ DRX=9
Operation Temperature	-45 °C to +85 °C
Dimensions	35mm × 32.5mm × 2.95mm (including B2B connector:3.1mm)
Weight	Approx 6g
Control via AT Commands	GSM 07.07 ,07.05 Enhanced AT commands SIM application toolkit

Specifications for Fax and Data

Fax	Group 3, Class 1 & 2
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/IP 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
Serial Interfaces	Two
PCM Interface	
Charge Interface	Optional
Antenna Connector and Solder Pad	

Compatibility

Drivers	MUX Driver
Compatibility	AT cellular command interface

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