

**QUECTEL**  
*Wireless makes smarter*

## **M16** Quad Band GSM/GPRS Module



Quad Band



GPRS Multi-slot Class 12



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



Embedded Internet Services  
Protocols



RoHS Compliant



Serial Port  
Multiplexer (GSM0710)



Quectel Enhanced AT  
Commands

The M16 is a complete Quad-band GSM/GPRS solution in a ZIF connector type which can be embedded in customer application, offering the highest reliability and robustness.

Featuring an industry-standard interface, the M16 delivers GSM/GPRS 850/900/1800/1900MHz performance for voice, SMS, data, and fax in a form factor with extremely low power consumption. With a configuration of **54.5mm x 36mm x 4.5mm**, M16 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 54.5mmx36mmx4.5mm
- ZIF 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

# M16

## Quad Band GSM/GPRS Module

### General features

<b>Quad-Band</b>	850/ 900/ 1800/ 1900 MHz
<b>GPRS multi-slot class</b>	12/10/8
<b>GPRS mobile station class</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
<b>Dimensions</b>	54.5mmx36mmx4.5mm
<b>Weight</b>	Approx 12g
<b>Control via AT commands (GSM 07.07 ,07.05 and other enhanced AT Commands)</b>	
<b>SIM application toolkit</b>	

### Specifications for fax

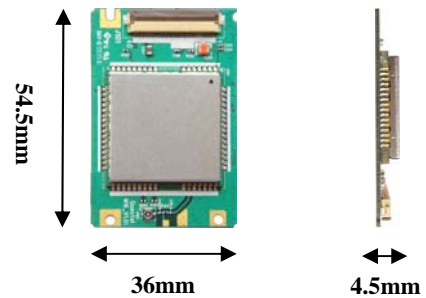
Group 3, class 1 & class 2

### 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 40-pin ZIF connector

### Power supply

External SIM 3V/1.8V

Analog audio interfaces Two channels

### Serial interface

Antenna connector and solder pad

### Drivers

MUX Driver

### Compatibility

AT cellular command interface

### Contact us

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