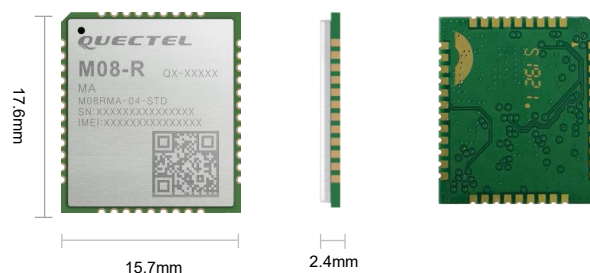


# Quectel M08-R

## Ultra-compact Quad-band GSM/GPRS Module



Quectel M08-R is a cost-effective and ultra-compact quad-band GSM/GPRS module. The module measures just 17.6mm × 15.7mm × 2.4mm, which is perfectly suited for applications with demanding size, cost and quality requirements.

Available in industry standard form factor in leadless chip carrier (LCC) package, M08-R is easy to solder and its SMT pads allow fully automated assembly with standard pick & place and reflow soldering, which enable cost-efficient and high-volume production as well as fast time-to-market.

The comprehensive set of interfaces, compact form factor, ultra-low power consumption and wide temperature range extend the applicability of M08-R to a wide range of M2M applications such as wearable devices, industrial PDA, personal tracking, wireless POS, smart metering, telematics, etc.



### Key Benefits

- ✓ Ultra-compact quad-band GSM/GPRS module
- ✓ Easy to solder with LCC form factor
- ✓ Power consumption as low as 1.3mA
- ✓ Support voice, QuecFOTA®, DFOTA and QuecLocator®
- ✓ Embedded powerful Internet service protocols, multiple sockets & IP addresses
- ✓ Fast time-to-market: simple product design, evaluation tools and timely technical support to minimize design-in time and development efforts



Quad-band



Extended Temperature Range: -40°C ~ +85°C



LCC Package



GPRS Multi-slot Class 12



Ultra-compact Size



Embedded Internet Services Protocols



Quectel Enhanced AT Commands



Audio Function

# Quectel M08-R

GSM/GPRS		M08-R
Frequency Bands	850/900/1800/1900MHz	
Dimensions (mm)	(17.6±0.15) × (15.7±0.15) × (2.4±0.20)	
Temperature Range		
Operation Temperature	-35°C ~ +75°C	
Extended Temperature	-40°C ~ +85°C	
Certifications		
Regulatory	CE*	
Others	RoHS Compliant	
Data		
GPRS Class 12	Max. 85.6kbps (Downlink) Max. 85.6kbps (Uplink)	
Coding Schemes	CS-1, CS-2, CS-3, CS-4	
USSD	●	
Non-transparent Mode	●	
SMS		
Point-to-point MO and MT	●	
Text and PDU Mode	●	
Interfaces		
(U)SIM	× 1, 1.8V/3.0V	
UART	× 3, Main Port, Debug Port and Auxiliary Port	
Analog Audio	× 2, 1 Output Channel and 1 Input Channel	
RTC	× 1	
Antenna Pad	× 1 GSM Antenna Pad	
voice		
Speech Codec Modes	HR/ FR/ EFR/ AMR	
Echo Arithmetic	Echo Cancellation/ Echo Suppression/ Noise Reduction	
Enhanced Features		
QuecFOTA®	●	
DFOTA	●	
QuecCell	●	
QuecFile	●	
OpenCPU	●	
QuecLocator®	●	
CMUX	●	
Audio Play/Audio Recording	●	
General Features		
GPRS Multi-slot Class	Class 12	
GPRS Mobile Station	Class B	
Weight	Approx. 1.18g	
Package	LCC	
Software Features		
Protocols	TCP/ UDP/ PPP/ HTTP/ NTP/ PING/ TTS/ FTP/ SSL/ MQTT/ HTTPS/ IPv6*	
AT commands	GSM 07.07, 07.05 and other Enhanced AT commands	
Electrical & Sensitivity		
Output Power	Class 4 (2W) @GSM850/EGSM900MHz Class 1 (1W) @DCS1800/PCS1900MHz	
Consumption	1.3mA <sup>①</sup> @DRX=5 1.2mA <sup>①</sup> @DRX=9	
Sensitivity	GSM850: -108dBm EGSM900: -108dBm DCS1800: -107dBm PCS1900: -107dBm	
Supply Voltage	3.45V~4.25V, Typ. 4.0V	

## Notes:

- \* means under development
- means supported.
- ① means average value, for reference only.