

M95

Quad Band GSM/GPRS Module

QUECTEL

Wireless Module Expert



Quad Band



Highly Compact Size



GPRS Multi-slot Class 12



Extended Temperature Range



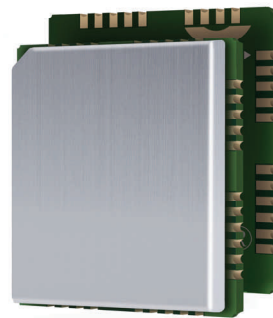
SMD Type



Serial Port Multiplexer (GSM0710)



Embedded Internet Service Protocols



M95 is one of the smallest Quad-band 850/900/1800/1900 GSM/GPRS surface mounted modules in the world. With LCC package technology, M95 provides the ultra tiny configuration of **19.9 x 23.6 x 2.65mm** and can be embedded in customer applications, offering the highest reliability and robustness.

Featuring an industry-standard interface, M95 delivers GSM/GPRS performance for Data, Voice, and SMS with extremely low power consumption, extended temperature and compact profile. With extremely compact size and integrated protocols, M95 can almost meet all the M2M requirements, including VTS, Industrial PDA, Personal tracking, Wireless POS, Smart Metering, and many other M2M applications.

- One of the smallest Quad-band GSM/GPRS module
- LCC package suits for customer application
- Voice supported, embedded Class-AB amplifier
- Power consumption is as low as 1.3mA
- Embedded powerful Internet service protocols, multiple Sockets & IP addresses
- QuecFOTA
- Jamming detection
- DTMF decoding

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General Features

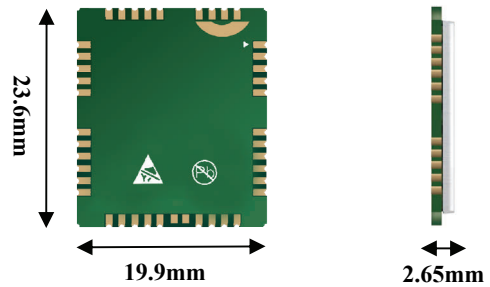
Quad Band	850/900/1800/1900 MHz
GPRS Multi-slot Class	12, 1~12 configurable
GPRS Mobile Station	Class B
Compliant with GSM Phase 2/2+	Class 4 (2W @850/900 MHz) Class 1 (1W @1800/1900 MHz)
Supply Voltage Range	3.3~4.6 V 4.0V nominal
Low Power consumption	Con- 1.3mA @DRX=5 1.2mA @DRX=9
Operation Temperature	-40 °C ~ +85 °C
Dimensions	19.9mm × 23.6mm × 2.65mm
Weight	Approx 3g
Control via AT commands (GSM 07.07 ,07.05 and other enhanced AT Commands)	

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	
Protocols	PPP, FTP TCP/UDP SMTP HTTP MUX

Specifications for SMS

Point-to-point MO and MT	
SMS Cell Broadcast	
Text and PDU Mode	



Specifications for Voice

Speech Codec Mode	Half Rate (HR) Full Rate (FR) Enhanced Full Rate (EFR) Adaptive Multi-Rate (AMR)
Echo Arithmetic	Echo Cancellation Echo Suppression Noise Reduction

Interfaces

SIM/USIM	3V/1.8V
UART	2 interfaces
Analog Audio Channel	2 Embedded Class-AB amplifier
RTC Backup	
Antenna Pad	

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