

Quectel **GC10**

Quad-band GSM/GPRS Module



Quad-band



GPRS Multi-slot
Class 10



Extended Temperature
Range -40°C to +85°C



Highly Compact Size



LCC Type



Embedded Internet
Services Protocols



GSM/GPRS

Key benefits

- ☛ The globe's tiniest Quad-Band LCC GSM/GPRS module
- ☛ Easier soldering process with LCC package
- ☛ Power consumption as low as 1.3mA
- ☛ Voice supported
- ☛ QuecLocator
- ☛ Embedded powerful Internet service protocols, multiple Sockets & IP addresses

GC10 is the smallest Quad-band GSM/GPRS module using LCC castellation packaging in the market. Based on the latest 2G chipset, it has the optimal performance in SMS & Data transmission and audio service even in harsh environment. Its ultra-compact 15.9 x 17.6 x 2.35mm profile makes GC10 an perfect platform for size sensitive applications.

The easy-soldering LCC package enables cost effective, scalable automated manufacturing and high reliable connectivity. Meanwhile, LCC package addresses the requirements on hand-soldering if small scale manufacturing is needed.

With compact form factor, low power consumption and extended temperature range, GC10 is designed to be a competitively priced GSM/GPRS solution and it is fully suitable for applications such as automotive, industrial PDA, personal tracking, wireless POS, telematics and other M2M applications.

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Quad-band GSM/GPRS Module

General Features

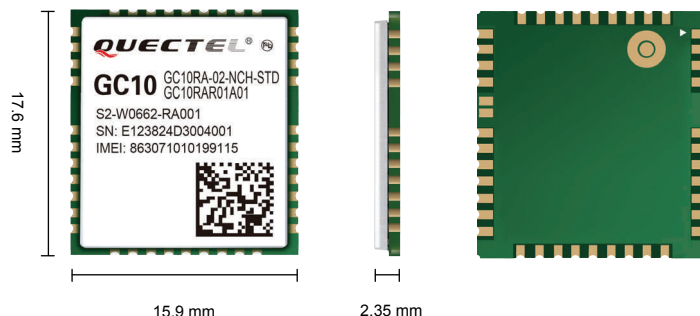
Quad-band	850/900/1800/1900MHz
GPRS Multi-slot Class	Class 10
GPRS Mobile Station	Class B
Compliant to GSM Phase 2/2+	Class 4 (2W @ 850/900MHz) Class 1 (1W @ 1800/1900MHz)
Supply Voltage Range	3.3~4.6V 4.0V nominal
Low Power Consumption	1.3mA @ DRX=5 1.1mA @ DRX=9
Operation Temperature	-40 °C ~ +85 °C
Dimensions	15.9 x 17.6 x 2.35mm
Weight	Approx. 1.3g
Control via AT commands	GSM 07.07, 07.05 and other enhanced AT Commands

Specifications for Data

GPRS Class 10	85.6 kbps (Downlink) 42.8 kbps (Uplink)
PBCCH support	
Coding Schemes	CS 1, 2, 3, 4
USSD	
Protocols	TCP/UDP/PPP

Specifications for SMS

Point-to-point MO and MT
Text and PDU Mode



Specifications for Voice

Speech Codec Modes	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
Analog Audio Channel	2
RTC	
Antenna PAD	