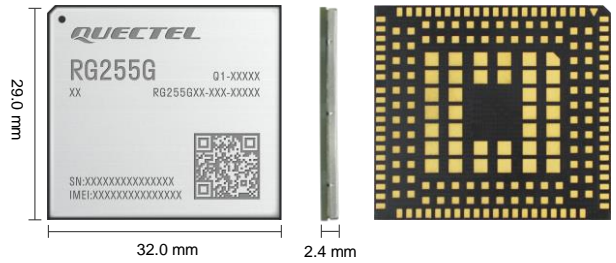


Quectel RG255G Series

5G RedCap Sub-6GHz LGA Module



Quectel RG255G is a series of 5G Redcap Sub-6 GHz LGA module. Adopting the 3GPP Rel-17 RedCap technology, with features of URLLC/ Slicing, up to 256 QAM DL/ UL and LTE & NR-FR1 (20 MHz), the module supports a theoretical peak data rate of 220 Mbps in the downlink and 121 Mbps in the uplink. The module supports LTE Cat 4 and 5G Sub-6 SA mode, and is backward compatible with Rel-15 and Rel-16 networks. The module is partially compatible with Quectel 4G module EG2x/EC2x series modules with smaller sizes, which can meet customers' different application demands for medium speed, large capacity, low latency, high reliability, etc., and is convenient for customers to design.

RG255G series module is an industrial-grade module, It can be widely used in smart grid, video network, Internet of Vehicles, UAV, POS machines, industrial automation, medium and low-speed FWA and other scenarios.

RG255G series module contains two variants: RG255G-NA and RG255G-EU. It can support RTOS systems of IoT devices with less RAM and flash memory. The module integrates a multi-constellation GNSS (GPS, GLONASS, BDS, and Galileo) receiver. It helps to simplify the product design and can achieve high-precision, fast, and dependable positioning.

A rich set of Internet protocols, industry-standard interfaces (USB 2.0, PCIe 1.0, PCM, UART, SPI, etc.) and abundant functionalities (USB drivers for Windows 8/ 8.1/ 10/ 11, Linux and Android) extend the applicability of the module to a wide range of RedCap applications.



Key Features

- ✓ LGA form factor, small size
- ✓ Worldwide 5G/ 4G coverage
- ✓ 5G SA mode, with URLLC/ Slicing features
- ✓ Multi-constellation GNSS receiver available for applications requiring fast and accurate fixes in any environment (optional)
- ✓ Feature refinements: DFOTA and VoNR/ VoLTE (optional)
- ✓ PCIe 1.0 interface for Wi-Fi/ Bluetooth

 5G^{NR} 5G NR Sub-6 GHz	 4G LTE LTE Cat 4	 AT Quectel Enhanced AT Commands
 Embedded Abundant Protocols	 LGA LGA Form Factor	 Multi-constellation GNSS (Optional)
 USB 2.0 High Speed Interface	 PCIe PCIe 1.0 Interface	 VoNR 5G VoNR/ VoLTE (Optional)