BG96 is a series of LTE Cat M1/Cat NB1/EGPRS module offering a maximum data rate of 375Kbps downlink and 375Kbps uplink. It features ultra-low power consumption, and provides pin-to-pin compatibility with Quectel LTE module EG91/EG95, Cat NB1 (NB-IoT) module BC95, UMTS/HSPA module UG95/UG96 and GSM/GPRS module M95.

With a cost-effective SMT form factor of 26.5mm × 22.5mm × 2.3mm and high integration level, BG96 enables integrators and developers to easily design their applications and take advantage from the module’s low power consumption and mechanical intensity. Its advanced LGA package allows fully automated manufacturing for high-volume applications.

A rich set of Internet protocols, industry-standard interfaces (USB/UART/I2C/Status Indicator) and abundant functionalities (USB drivers for Windows 7/8/8.1/10, Linux and Android) extend the applicability of the module to a wide range of M2M applications such as wireless POS, smart metering, tracking, etc.

**Key Benefits**

- LTE Cat M1/Cat NB1/EGPRS module with ultra-low power consumption
- Compact SMT form factor ideal for size-constrained applications with tight space
- Easy migration from Quectel GSM/GPRS, UMTS/HSPA and LTE modules
- Super slim profile in LGA package
- Fast time-to-market: reference designs, evaluation tools and timely technical support minimize design-in-time and development efforts
- Robust mounting and interfaces

EMAIL US: info@quectel.com

VISIT US: www.quectel.com
Variants for the Global

BG96
Cat M1/Cat NB1:
- LTE TDD: B39 (For Cat M1 Only)
EGPRS:
- 850/900/1800/1900MHz

BG96-M
Cat M1:
- LTE TDD: B39

Data
Cat M1:
- Max. 375Kbps (DL), Max. 375Kbps (UL)
Cat NB1:
- Max. 32Kbps (DL), Max. 70Kbps (UL)
EGPRS:
- 850/900/1800/1900MHz

Voice
VolTE (For Cat M1 Only. Support Realtek ALC 5616 /NAU8814 Codec by Default Firmware)

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

Interfaces
- USB 2.0 with High Speed up to 480Mbps
- UART x 3
- PCM x 1
- ADC x 2 (15 bits)
- GPIO x 2 (I2C and UART3 can be re-configured as extra 4 GPIOs)
- (U)SIM Interface x 1
- NETLIGHT for Network Status Indication

Software Features
- USB Serial Driver:
  - Windows 7/8/8.1/10, Windows CE 5.0/6.0/7.0, Linux 2.6.3.x/4.1~4.14, Android 4.4/5.0/6.0/7.x
- RIL Driver:
  - Android 4.4/5.0/6.0/7.x
- NDSS Driver:
  - Windows 7/8/8.1/10
- ECM Driver*:
  - Linux 2.6.3.x/4.1~4.14
- GobiNet Driver:
  - Linux 2.6.3.x/4.1~4.14
- QMI_WWAN Driver:
  - Linux 3.x (3.4 or later)/4.1~4.14
- Protocols:
  - PPP/TCP/UDP/SSL/TLS/FTP(S)/HTTP(S)/NITZ/PING/MQTT

General Features
- 3GPP E-UTRA Release 13
- Temperature Range: -40°C ~ +85°C
- Dimensions: 26.5mm × 22.5mm × 2.3mm
- Approx. 3.1g
- LGA Package
- Supply Voltage: 3.3V~4.3V, 3.8V Typ.
- 3GPP TS27.007, 3GPP TS 27.005 and Quectel Enhanced AT Commands

Approvals
- CE/GCF (Europe)
- FCC/PTCRB/Verizon/AT&T/T-Mobile* (North America)
- RCM/Telstra (Australia)
- Telefonica* (Spain)
- IFETEL (Mexico)
- IC/BELL*/Telus (Canada)
- JATE*/TELEC*/KDDI/Softbank* (Japan)
- KC*/SKT* (Korea)
- CCC (China)
* Under Development