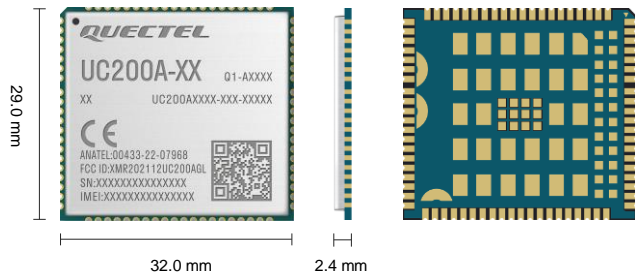# Quectel UC200A-GL

UMTS/HSPA+ Module

Quectel UC200A-GL is a cost-effective and high-performance UMTS/HSPA+ module with data rates of up to 21 Mbps downlink and up to 5.76 Mbps uplink. UC200A-GL is compatible with LTE Standard EC2x series (EC25 series and EC21 series), EC200U series, EC20-CE, EC200D-CN and EC200N-CN in SMT package, which ensures a smooth transition between 3G and 4G networks. In addition, UC200A-GL is also fully backward compatible with existing GSM/GPRS/EDGE networks.

In UMTS/HSPA+ connectivity, UC200A-GL is suited for global networks. UC200A-GL adopts the laser engraving process to ensure more good-looking appearance, strong metallic texture, better heat dissipation and durable label information, which makes it more suitable for automation requirements.

A rich set of Internet protocols, industry-standard interfaces and abundant functionalities (USB drivers for Windows 7/8/8.1/10/11, Linux and Android) extend the applicability of the module to a wide range of M2M applications, such as automation, smart metering, tracking systems, security solutions, routers, wireless POS, mobile computing devices, PDA phones and tablet PC.

Key Features

- ✔ Worldwide UMTS/HSPA+ and GSM/GPRS/EDGE coverage
- ✔ Low design cost
- ✔ High-performance and multi-feature interfaces
- ✔ High-quality data and image transmission even in harsh conditions
- ✔ Compatible with multiple LTE Standard modules in package

Dual-mode & Multi-band for UMTS & GSM

Max. 21 Mbps (DL) Max. 5.76 Mbps (UL)

Android OS

LCC Package

Embedded Abundant Protocols

DFOTA

USB 2.0 High Speed Interface

Quectel Enhanced AT Commands

UMTS/HSPA+	UC200A-GL
Region/Operator	Global
Dimensions (mm)	29.0 × 32.0 × 2.4
Temperature Range	
Operating Temperature	-35 °C to +75 °C
Extended Temperature	-40 °C to +85 °C
Frequency Bands	
WCDMA	B1/B2/B5/B8
GSM/EDGE	B2/B3/B5/B8
Certifications	
Regulatory	**Europe:** CE **America:** FCC **Australia/New Zealand:** RCM **Brazil:** Anatel
Data Rates	
HSPA+ (Mbps)	21 (DL)/5.76 (UL)
WCDMA (kbps)	384 (DL)/384 (UL)
EDGE (kbps)	236.8 (DL)/236.8 (UL)
GPRS (kbps)	85.6 (DL)/85.6 (UL)
Interfaces	
USB 2.0	× 1
Audio Digital (PCM)	× 1
(U)SIM	× 1 (1.8/ 3.0 V)
NETLIGHT	× 2 (NET_STATUS and NET_MODE)
UART	× 2 (Main UART and Debug UART)
ADC	× 2 (12 bits)
SDIO	× 1 (Use for connecting SD card)
STATUS	× 1 (ON/OFF Status Indication)
I2C	× 1
RESET	× 1 (Active low)
PWRKEY	× 1 (Active low)
Voice	
Speech Codec Modes	HR/FR/EFR/AMR/AMR-WB
Echo Arithmetic	Echo Cancellation/ Noise Reduction
Enhanced Features	
DFOTA	●
Firmware Upgrade via USB or UART	●
(U)SIM Detection	●
Software Features	
Protocols	TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/PING/CMUX/HTTPS/FTPS/SSL/FILE/MQTT/MMS/SMTP/SMTPS
Drivers	
USB Serial Driver	Windows 7/8/8.1/10/11, Linux 2.6–5.15, Android 4.x–12.x
RIL Driver*	Android 4.x–12.x
USB ECM Driver	Linux 2.6–5.15
USB RNDIS Driver*	Windows 7/8/8.1/10/11 Linux 2.6–5.15
Electrical Features	
Supply Voltage Range	3.4–4.5 V, typ. 3.8 V
Power Consumption (Typical)	17 µA @ Power off 1 mA @ Sleep

NOTE:

1. *: under development.

2. ●: supported.

QUECTEL