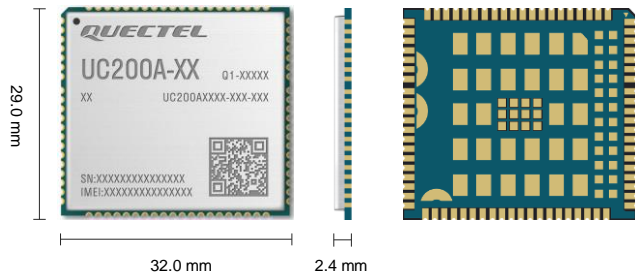


Quectel UC200A-GL

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 UMTS/HSPA+ UC200T series and LTE Standard EC2x series and EG2x-G series (EC25 series, EC21 series, EC20 R2.1 and EG25-G) and EC200x series (EC200T series and EC200U series) in SMT package, which ensures a smooth transition between 3G and 4G networks. In addition, UC200A-GL is also fully backward compatible with existing EDGE and GSM/GPRS networks.

In UMTS/HSPA+ connectivity, UC200A-GL is suited for global networks. With improved heat dissipation and indelible markings, the laser-engraved label makes UC200A-GL more suitable for automated and mass manufacturing.

A rich set of Internet protocols, industry-standard interfaces (USB/UART/PCM/ADC/NETLIGHT) as well as abundant drivers (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 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 redesign cost
- ✓ High-performance and multi-feature interfaces
- ✓ High-quality data and image transmission even in harsh conditions
- ✓ Compatible with UMTS/HSPA+ UC200T Series and Multiple LTE Standard modules in package

 Dual-mode & Multi-band for UMTS & GSM	 Max. 21 Mbps (DL) Max. 5.76 Mbps (UL)	
 LCC Package	 Embedded Abundant Protocols	 DFOTA
 USB 2.0 High Speed Interface	 Quectel Enhanced AT Commands	

Quectel UC200A-GL

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	America: FCC* 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 (Optional)
(U)SIM	× 1 (1.8/ 3.0 V)
NETLIGHT	× 2 (NET_STATUS and NET_MODE)
UART	× 2
ADC	× 2
SDIO*	× 1
STATUS	× 1
I2C	× 1
RESET	× 1
PWRKEY	× 1
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	●
QuecLocator®	●
QuecFile®	●
(U)SIM Detection	●

NOTE:

- *: under development.
- : supported.

Quectel UC200A-GL

UMTS/HSPA+	UC200A-GL
Software Features	
Protocols	TCP/UDP/PPP/NTP/NITZ/FTP/HTTP/PING/CMUX/HTTPS/FTPS/SSL/FILE/MQTT/MMS/SMTP/SMTSPS
Drivers	
USB Serial Driver	Windows 7/8/8.1/10, Linux 2.6–5.12, Android 4.x–11.x
RIL Driver*	Android 4.x–11.x
USB ECM Driver	Linux 2.6–5.12
USB RNDIS Driver*	Windows 7/8/8.1/10 Linux 2.6–5.12
Electrical Features	
Supply Voltage Range	3.4–4.5 V, typ. 3.8 V
Power Consumption (Typical)	TBD @ Power off TBD @ Sleep

NOTE:

*: under development