Quectel UC200T

UMTS/HSPA+ Module

UC200T-XX
Q1-AXXXX
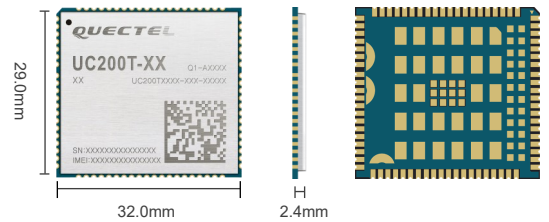XX   UC200TXXXX-XXX-XXXXX
SN:XXXXXXXXXXXXXX
IMEI:XXXXXXXXXXXXXXX

29.0mm
32.0mm
H
2.4mm

Quectel UC200T is a cost-effective and high-performance UMTS/HSPA+ module with data rates of up to 21Mbps downlink and up to 5.76Mbps uplink. UC200T is compatible with Quectel UC20 series and LTE EC2x and EG2x-G series (EC25, EC21, EC20 R2.0, EC20 R2.1 and EG25-G) in SMT package, which ensures a smooth transition between 3G and 4G networks. In addition, UC200T is also fully backward compatible with existing EDGE and GSM/GPRS networks.
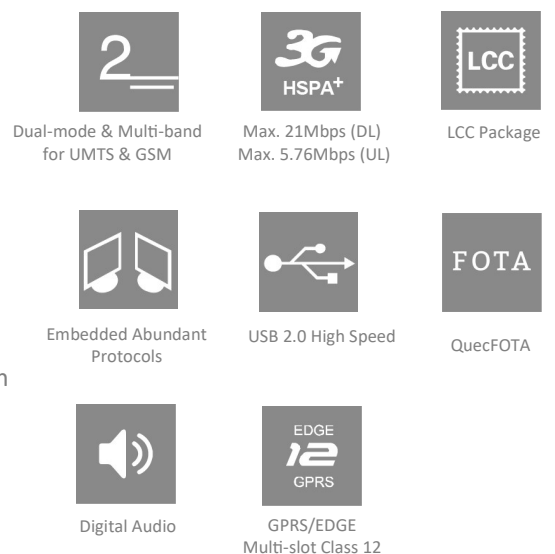
UC200T is available in UC200T-EM and UC200T-GL. In UMTS/HSPA+ connectivity, UC200T-EM is suited for European and Asia-Pacific networks and UC200T-GL is suited for global networks. With improved heat dissipation and indelible markings, the laser-engraved label makes UC200T more suitable for automated and mass manufacturing.

A rich set of Internet protocols, industry-standard interfaces (USB/UART/PCM/ADC/NETLIGHT/SD*) 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 Benefits

- ✔ 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+ UC20 Series and LTE EC2x modules in package

Dual-mode & Multi-band for UMTS & GSM

3G HSPA+
Max. 21Mbps (DL)
Max. 5.76Mbps (UL)

LCC
LCC Package

Embedded Abundant Protocols

USB 2.0 High Speed

FOTA
QuecFOTA

Digital Audio

EDGE 12 GPRS
GPRS/EDGE Multi-slot Class 12

Rev.: V1.0| Status: Released

Quectel UC200T Series

UMTS/HSPA+	UC200T-EM	UC200T-GL
Region/Operator	Europe/Asia Pacific Region	Global
Dimensions (mm)	29.0 × 32.0 × 2.4	29.0 × 32.0 × 2.4
Temperature Range		
Operation Temperature	−35°C ~ +75°C	−35°C ~ +75°C
Extended Temperature	−40°C ~ +85°C	−40°C ~ +85°C
Frequency Bands		
WCDMA	B1/B8	B1/B2/B5/B6/B8
GSM	900/1800MHz	850/900/1800/1900MHz
Certifications		
Carrier		
Regulatory	**Europe:** CE **Australia/New Zealand:** RCM	**Brazil:** Anatel*
Data Transmission		
HSPA+ (Mbps)	Max 21 (DL) ／Max 5.76 (UL)	Max 21 (DL) ／Max 5.76 (UL)
UMTS (Kbps)	Max 384 (DL/UL)	Max 384 (DL/UL)
EDGE (Kbps)	Max 236.8 (DL/UL)	Max 236.8 (DL/UL)
GPRS (Kbps)	Max 85.6 (DL/UL)	Max 85.6 (DL/UL)
Interfaces		
USB 2.0	x1	x1
Digital Audio PCM	x1 (Optional)	x1 (Optional)
(U)SIM	x1 (1.8V/ 3.0V)	x1 (1.8V/ 3.0V)
NETLIGHT	x2 (NET_STATUS and NET_MODE)	x2 (NET_STATUS and NET_MODE)
UART	x2 (Main and Debug）	x2 (Main and Debug）
ADC	x2（12 bits）	x2（12 bits）
SDIO✽	×1 (Used for connecting SD card)	×1 (Used for connecting SD card)
STATUS	×1 (ON/OFF Status Indication)	×1 (ON/OFF Status Indication)
I2C	x1	x1
RESET_N	● （Active low)	● （Active low)
PWRKEY	● （Active low)	● （Active low)
Voice		
Speech Codec Modes	HR, FR, EFR, AMR, AMR-WB	HR, FR, EFR, AMR, AMR-WB
Echo Arithmetic	Echo Cancellation/ Noise Reduction	Echo Cancellation/ Noise Reduction
Enhanced Features		
FOTA（QuecFOTA）	●	●
Firmware Upgrade via USB or UART	●	●
QuecFile	●	●
(U)SIM Detection	●	●
Drivers		
RIL Driver	Android 4.x/5.x/6.0/7.x/8.x/9.x	Android 4.x/5.x/6.0/7.x/8.x/9.x
RNDIS Driver	Windows 7/8/8.1/10	Windows 7/8/8.1/10
ECM Driver	Linux 2.6/3.x/4.1~5.4	Linux 2.6/3.x/4.1~5.4
USB-Serial Driver	Windows 7/8/8.1/10 Linux 2.6~5.0 Android 4.x/5.x/6.x/7.x/8.x/9.x	Windows 7/8/8.1/10 Linux 2.6~5.0 Android 4.x/5.x/6.x/7.x/8.x/9.x
Electrical Features		
Supply Voltage Range	3.4V~4.5V, 3.8V Typ.	3.4V~4.5V, 3.8V Typ.
Power Consumption	14μA @Power Off	17μA @Power Off

Notes:
1. * means under development
2. ● means supported.

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