

QUECTEL

Wireless Module Expert

U10 Series UMTS/HSPA Modules



Multi-Band WCDMA
and GSM



HSDPA 7.2M
HSUPA 5.76M



Camera Interface, up to 8M



Embedded Abundant
Protocols



100-pin B2B Connector



SD Card



Serial Port
Multiplexer (GSM0710)



USB 2.0 High Speed
Compliant Interface



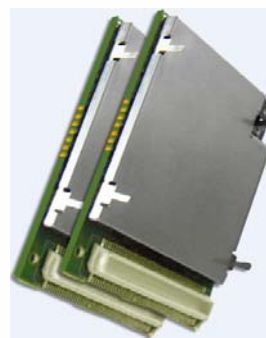
Dual SIM Interfaces



Quectel Enhanced AT
Commands



RIL Driver



U10 series are Multi-band WCDMA / GSM modules with HSDPA 7.2 Mbps download speed and HSUPA 5.76 Mbps upload speed, which are available in a compact form factor and support a rich set of internet protocols, offering a complete world-wide coverage of all the different bands.

Featuring board-to-board type, full shielding, extremely low power consumption and ultra slim thickness, U10 series bring the benefits of utmost flexibility and robustness to customer's application.

U10 series offer fully integrated access to Quectel GPS receivers. A host-based GPS module is controlled through a single serial port, reducing cost and enabling short time-to-market.

Equipped with industry-standard interface and abundant functions such as camera/USB/SD card/BT2.1/IIC/SPI/PCM, U10 series are your ultimate choice for VTS, smart metering, wireless POS, security, connected navigation systems, video surveillance, internet gateways and many other M2M applications.

- Multi-band WCDMA and GSM
- HSPA, up to 7.2Mbps (DL) and 5.76Mbps (UL)
- EDGE multi-class 12
- GPRS multi-class 12
- Enhanced multimedia capability for video surveillance
- Robust mounting and interfaces
- Camera interface, up to 8M pixels

U10 Series

UMTS/HSPA Modules

General Features

WCDMA Bands	850/1900/2100 MHz(U10-G) 900/2100MHz (U10-E) 850/1900MHz (U10-A) 2100MHz (U10-S)
GSM Bands	850/900/1800/1900 MHz (U10-G/U10-A) 900/1800 MHz(U10-E/U10-S)
EDGE Multi-slot	Class 12
GPRS Multi-slot	Class 12
Output Power	Class 3 (0.25 W) for UMTS/HSPA Class E2 (0.5 W) for EDGE 850/900 Class E2 (0.4 W) for EDGE 1800/1900 Class 4 (2 W) for GSM900 Class 1 (1 W) for GSM 1800/1900
Supply Voltage Range	3.4 ~ 4.5V 4.0V nominal
Power Consumption	TBD
Operation Temperature	-40 °C ~ +80 °C
Dimension	42mmx33mmx2.7mm
Weight	Approx. 8g
Control via AT commands (GSM 07.07, 07.05 and other enhanced AT Commands)	

Specifications for Data

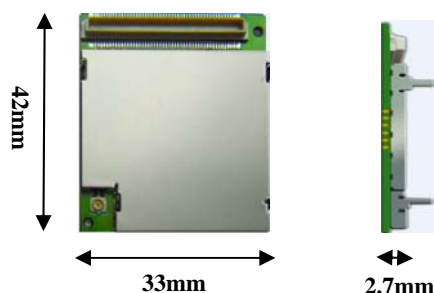
HSPA	max.7.2 Mbps (DL), max 5.76 Mbps (UL)
UMTS	max.384 Kbps (DL), max 384 Kbps (UL)
EDGE	max 236.8 Kbps (DL), max 236.8 Kbps (UL)
GRPS	max 85.6 Kbps (DL), max 85.6 Kbps (UL)
CSD	14.4 Kbps

Specifications for Fax

Group 3, class 1 & 2

Specifications for SMS

Point-to-point MO and MT
SMS Cell Broadcast



Specifications for Voice

Speech Codec Modes	HR, FR, EFR, WBAMR
Echo Arithmetic	Echo Cancellation Echo Suppression Noise Reduction

Handset, Headset modes

Interfaces

Dual SIM	3V/ 1.8V, W+G, G+G
Audio	2 channels
Camera	up to 8M
USB	2.0 high speed
UART	3 channels
IIC	up to 400Kbps
SPI	
SD Card	up to 32G bytes
PCM	
PWM	
ADC	2 channels
RTC Backup	
Charge	Li-ion battery
GPIOs	
Antenna	connector & pad
Bluetooth	2.1+EDR

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