Quectel UG95

Ultra-small UMTS/HSPA Module
High-speed Wireless Connectivity

Dual-mode&Multi-band for UMTS&GSM

HSPA 7.2Mbps

LGA Package

Embedded Abundant Protocols

DFOTA

Tiny Size

USB 2.0 High Speed Compliant Interface

USB Drivers

Quectel Enhanced AT Commands

Key Benefits

- Worldwide UMTS/HSPA and GSM/GPRS/EDGE coverage
- Minimal SMT form factor ideal for small end products with tight space
- Seamless drop-in migration to GSM/GPRS module
- Super slim profile in LGA package
- High-quality data and image transmission even in hazard conditions and dark environment
- Fast time-to-market:
  Reference designs, evaluation tools and timely technical support minimize design-in time and development efforts
- Robust mounting and interfaces

UG95 is a cost effective and ultra-compact UMTS/HSPA module featuring a maximum data rate of 7.2Mbps downlink and 5.76Mbps uplink. Designed to be compatible with Quectel GSM/GPRS M95 module in the compact and unified form factor, it provides a flexible and scalable platform for migrating from GSM/GPRS/EDGE to UMTS/HSPA. This enables integrators and developers to design their applications once and take advantage of true worldwide coverage and service flexibility afforded by the combination of the two most prevalent cellular technologies worldwide.

The tiny profile of 19.9 × 23.6 × 2.2mm in cost optimized SMT form factor and highly integration level enable integrators and developers to easily design their applications and truly benefit from the module's small size, 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/PCM) and abundant functionalities (USB drivers for Windows XP, Windows 7, Windows CE, Linux, Android/eCall) extend the applicability of the module to a wide range of M2M applications such as handheld device, tablet, telematics, metering, security and surveillance system, and industrial PDA.
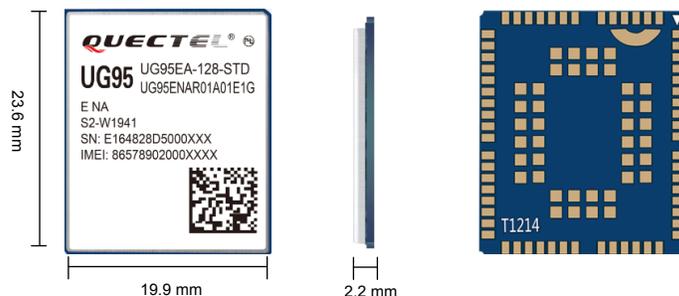
QUECTEL
Build a Smarter World

Quectel UG95

Ultra-small UMTS/HSPA Module
High-speed Wireless Connectivity

23.6 mm

UG95EA-128-STD
UG95ENAR01A01E1G
E NA
S2-W1941
SN: E164828D5000XXX
IMEI: 86578902000XXXX

19.9 mm

2.2 mm

T1214

General Features

Frequency Bands	**UG95-E** 900/2100MHz@UMTS 900/1800MHz@GSM **UG95-A** 850/1900MHz@UMTS 3G only
HSUPA	Release 7 (category 6)
HSDPA	Release 7 (category 8)
EDGE	Downlink only
GPRS	Multi-slot Class 12
UMTS	Release 99/7
GSM	Release 99/4
Supply Voltage Range	3.3V ~ 4.3V, 3.8V typ.
Operation Temperature	-40°C ~ +85°C
Dimensions	19.9mm × 23.6mm × 2.2mm
Weight	Approx. 2.5g
Control via AT commands	3GPP TS27.007, 27.005 and other enhanced AT Commands

Specifications

SMS		Point-to-point MO and MT SMS Cell Broadcast Text and PDU Mode
DATA	**HSUPA**	Max.5.76Mbps
	HSDPA	Max.7.2Mbps
	UMTS	Max.384Kbps (DL)/Max.384Kbps (UL)
	EDGE	Max.236.8Kbps (DL)
	GPRS	Max.85.6Kbps (DL)/Max.85.6Kbps (UL)
	CSD	GSM: 14.4 Kbps (DL)/14.4Kbps (UL) WCDMA: 64 Kbps (DL)/64Kbps (UL)
Voice	**Speech Codec Modes**	HR, FR, EFR, AMR, AMR-WB
	Echo Arithmetic	Echo Cancellation Noise Reduction
Protocols		PPP/TCP/UDP/MMS/HTTP/HTTPS/SMTP/ SMTPS/FTP/FTPS/NTP/NITZ/PING/SSL

Special Features

Drivers	**USB Serial**	Windows XP, Windows 7, Linux2.6/3.0, Android 2.3/4.0/4.2
Firmware Update		Firmware Update via USB and UART Interface
RAMFile		RAM File System Access and Management
DFOTA		Delta Firmware Upgrade Over The Air

Electrical Characteristics

Output Power	Class 3 (24dBm+1.7/-3.7dB)) for UMTS bands Class 4 (33dBm±2dB) for GSM 900 Class 1 (30dBm±2dB) for GSM 1800
Consumption	70µA@power off 0.96mA@GSM sleep, DRX=9 1.15mA@UMTS sleep, DRX=9 212mA@GSM voice, max power 586mA@UMTS voice, max power 490mA@GPRS data, max power 524mA@HSDPA, max power 563mA@HSUPA, max power
Sensitivity	-110dBm@UMTS 900/2100 -110.5dBm@UMTS 850/1900 -110.5dBm@DCS 1800 -109.5dBm@EGSM 900

Interfaces

USB	2.0 High Speed
Audio Digital	Digital Audio through PCM Interface (optional)
UART	×1, Full Functions
I2C	×1
PCM	×1
USIM	1.8V/3.0V
NETLIGHT	Indication for Network Status
STATUS	Indication for Power On and Off Status

Certification

Approval	CE/GCF/FCC/IC/ICASA/PTCRB/AT&T/Rogers

Quectel®

Build a Smarter World

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for RF Development Tools *category:*

Click to view products by MikroElektronika *manufacturer:*

Other Similar products are found below :

MAAM-011117 MAAP-015036-DIEEV2 EV1HMC1113LP5 EV1HMC6146BLC5A EV1HMC637ALP5 ADL5363-EVALZ EKIT01-HMC1197LP7F SKYA21001-EVB SMP1331-085-EVB EVAL01-HMC1041LC4 MAAL-011111-000SMB MAAM-009633-001SMB 107712-HMC369LP3 107780-HMC322ALP4 SP000416870 EV1HMC520ALC4 EV1HMC244AG16 EV1HMC539ALP3 124694-HMC742ALP5 SC20ASATEA-8GB-STD MAX2692EVKIT# SKY12343-364LF-EVB 108703-HMC452QS16G 119197-HMC658LP2 EV1HMC647ALP6 ADL5725-EVALZ 106815-HMC441LM1 UXN14M9PE SIMSA868-DKL SIMSA868C-DKL SKY65806-636EK1 SKY68020-11EK1 SKY67159-396EK1 SKY66181-11-EK1 SKY65804-696EK1 SKY13396-397LF-EVB SKY13380-350LF-EVB SKY13322-375LF-EVB SKY12207-478LF-EVB SE5023L-EK1 SE5004L-EK1 SE2436L-EK1 Se2435L-EK1 SIMSA915C-DKL SIMSA915-DKL SIMSA433C-DKL SKY12211-478LF-EVB EVK-R202-00B RF1624PCK-410 SKYA21003-EVB