

UG95 UMTS/HSPA Module Presentation

March, 2015

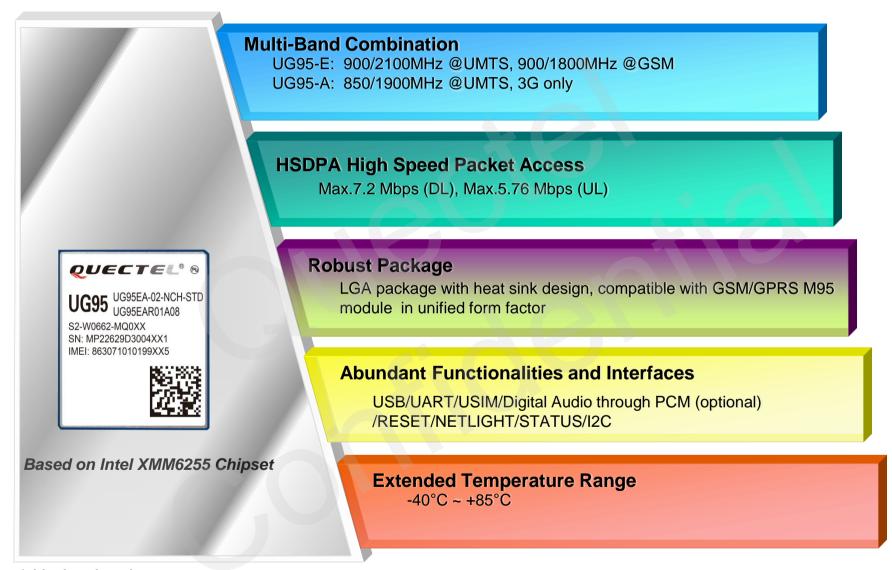
Highlights

Advanced Features

UG95 Vs. Competitor's Products



Highlights



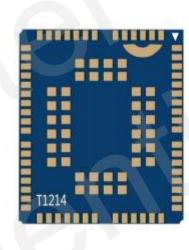
^{*} Under development



Mechanical Dimensions







Length: 19.9 mm (±0.15mm)

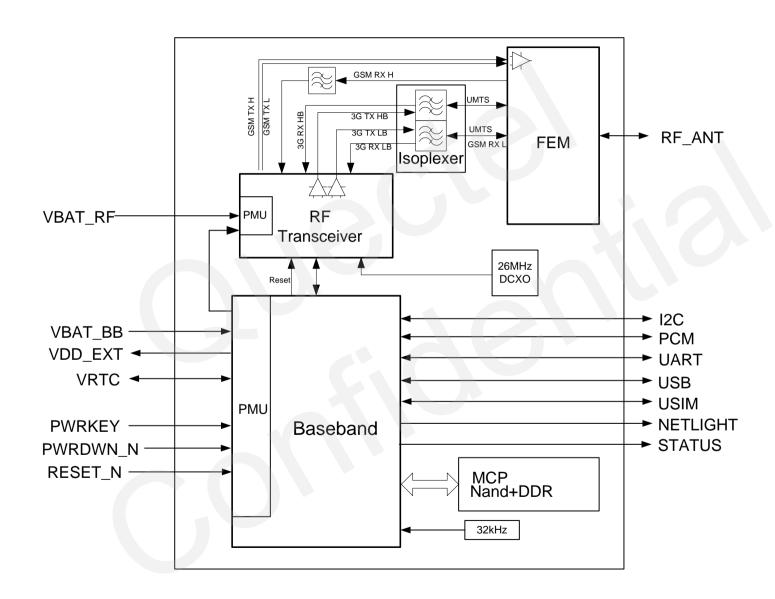
Width: 23.6 mm (±0.15mm)

Height: 2.2 mm (±0.2mm)

Weight: Approx. 2.5g



Hardware Architecture





Software Advantages

USB Serial Drivers

- Windows XP/ Vista/ 7/ 8/
 Windows Mobile 6.1*/6.5*
- Windows CE5.0*/6.0*
- Linux 2.6 or later
- Android 2.3 or later

Quality Guarantee

- Reliable network protocol
- Steady flash protected mechanism
- Superior audio algorithms
- High sensitivity

Mux&RIL Drivers

- RIL: Android 2.3/4.0/4.2,
 Windows CE6.0*,
 Windows Mobile 6.1*/6.5*
- MUX: Linux 2.6* or later
 Android 2.3* or later

Flexible Applications

- eCall*
- TTS*
- QuecLocator

Abundant Protocols

- TCP, UDP, PPP
- SMS
- FTP, HTTP, MMS, SMTP, PING, NTP, NITZ
- HTTPS, SMTPS, SSL

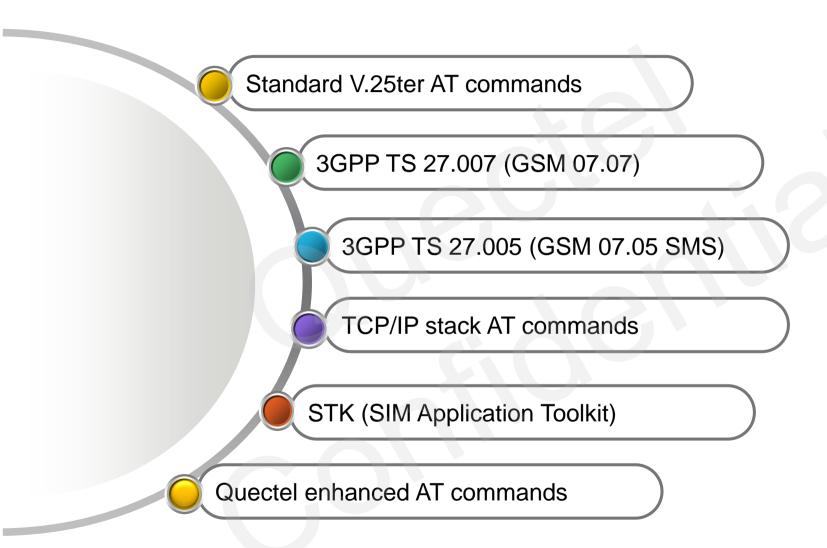
Special Features

- DFOTA
- RAMFile
- SIM Detection
- Over Temp.& Voltage Protection



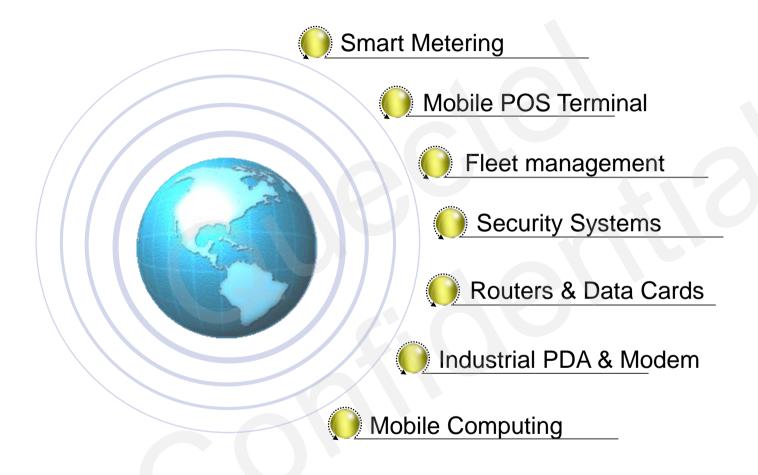
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Enhanced AT Commands





Target Applications





Highlights

Advanced Features

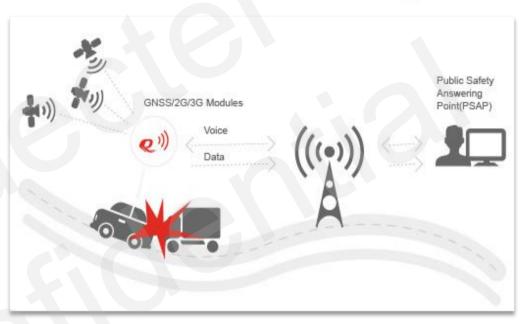
UG95 Vs. Competitor's Products



UG95 supports eCall function.



A car will have an electronic safety system automatically calling emergency services in case of a serious accident. Even if the driver is unconscious, the system will inform rescue workers of the crash site's exact whereabouts, and the rescues will be on its way within minutes. The system is named as "eCall".



Quectel supports eCall in 2G Modules as well and has been working on eCall since late 2011.

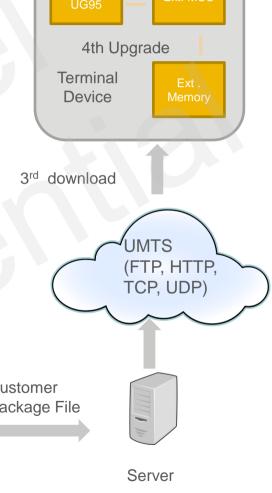
Quectel has enough development experience on eCall to support and assist with customer's eCall application development.

* Under development



DFOTA*

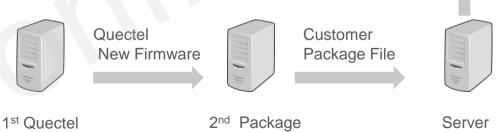
DFOTA is Delta Firmware Upgrade Over-the-Air. DFOTA updating technology enables mobile device manufacturers to remotely update software. New software can be delivered over the air, eliminating the need for the user to bring the device to a service facility.



DFOTA Upgrade Process

- DFOTA Sync
- DFOTA Packet
- DFOTA Upgrade Error Handle

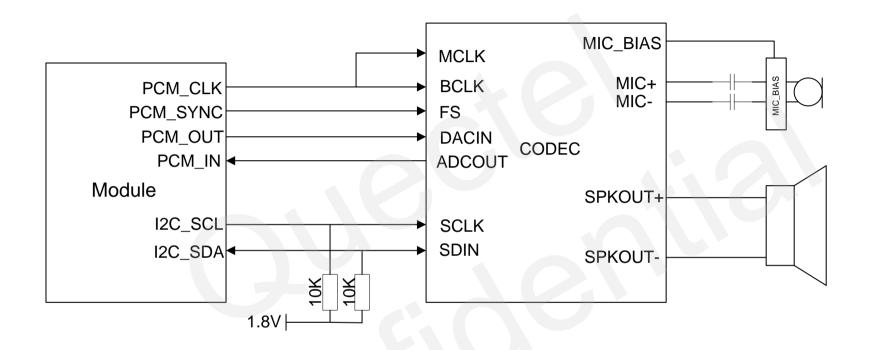
Release





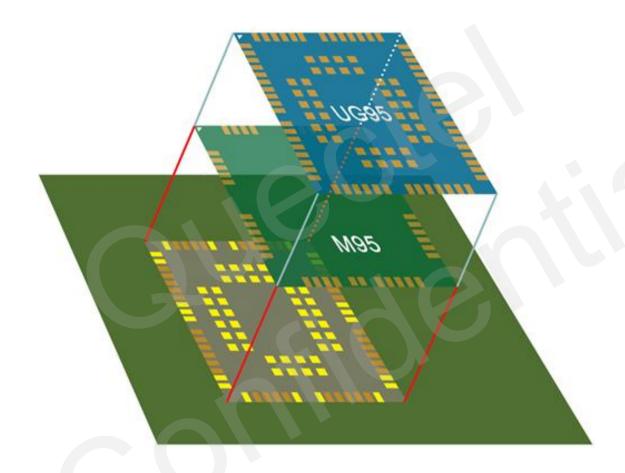
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Analog Audio Solution



UG95 can implement the analog audio function through a total recommended solution as the above figure shown. This external circuit allows UG95 module to deliver exceptional audio performance, which is fully verified by Quectel.

Layout Compatibility

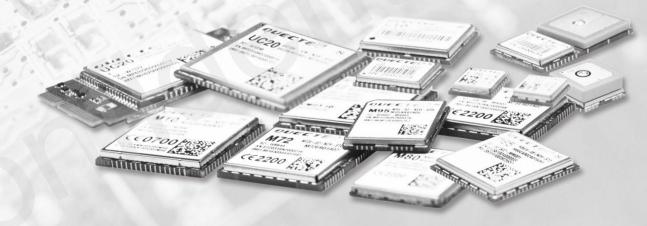


UG95 is compatible with GSM/GPRS M95 module. Compatibility design accommodates both M95 and UG95 modules on the same PCB footprint.

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UG95 Vs. Competitors' Products

Feature	UG95	UX865-N3G	SXRA-U2X	EXS5	HX8548
Platform	XMM6255	XMM6255	XMM6255	XMM6250	XMM6250
Package	LGA	LCC	LGA	LGA	LGA
Dimension	19.9×23.6 × 2.2 mm	24.4×24.4×2.6 mm	16×26×3 mm	27.6×18.8×2.3 mm	22×23×2.5 mm
Supply Voltage	3.3 to 4.3 V	3.4 to 4.2V	3.3 to 4.4V	3.3 to 4.5V	Unknown
Data Rate	DL 7.2 Mbps UL 5.76 Mbps	Unknown			
Voice	Supported (digital)	Supported (digital)	Supported (digital)	Supported (digital)	Supported (digital)
eCall *	Supported	Not supported	Optional	Not supported	Not supported
Over Temp&Voltage Protection	Supported	Not supported	Unknown	Not supported	Unknown
Compatibility with 2G Module	With M95	With XL865	With SXRA-G3	With BGS2	With HX6528
Temperature Range	-40°C ~ +85°C	-30°C ~ +85°C	-40°C ~ +85°C	-30°C ~ +85°C	-40°C ~ +85°C
Quec Enhanced Function	RAMFile DFOTA 				

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Technical Materials Package

- > Technical materials package
 - Hardware, software, specification
 - Application note package
 - Debug tool, download tool, test tool, EVB package, USB drivers.
 - Approvals & test report package



Development Tool

- Interfaces
 - ✓ RS-232 interfaces
 - ✓ USB interface
 - ✓ Power supply
 - ✓ Antenna interface
 - ✓ Handset interface
 - ✓ Earphone interface
 - ✓ Test interface
- Features
 - Digital or analog audio interface
 - ✓ Network status LED
 - ✓ Power key
 - ✓ Reset key





Thank you

