



UC15 UMTS/HSDPA Module Presentation

February, 2015

Contents

Highlights

Advanced Features

UC15 Vs. Competitor's Products

Support Package



Highlights



Based on Qualcomm QSC6270 Chipset

** Under development*

Multi-Band Combination

UC15-E: 900/2100MHz @UMTS, 900/1800MHz @GSM

UC15-A: 850/1900MHz @UMTS, 850/900/1800/1900MHz @GSM

UC15-T: 850/2100MHz @UMTS, 850/900/1800/1900MHz @GSM

HSDPA High Speed Packet Access

Max.3.6 Mbps (DL), Max.384 Kbps (UL)

Robust Package

LCC package with heat sink design, compatible with GSM/GPRS M10 module in unified form factor

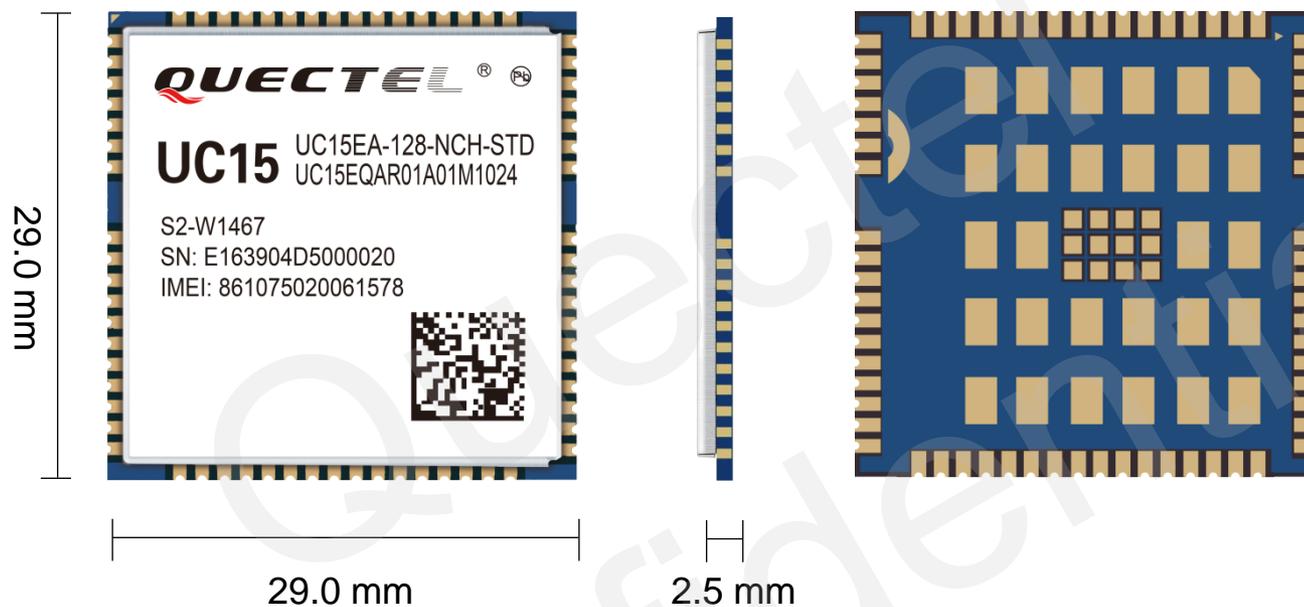
Abundant Functionalities and Interfaces

USB/UART/USIM/Analog Audio (optional)/PCM/ADC/RESET/
NETLIGHT/eCall

Extended Temperature Range

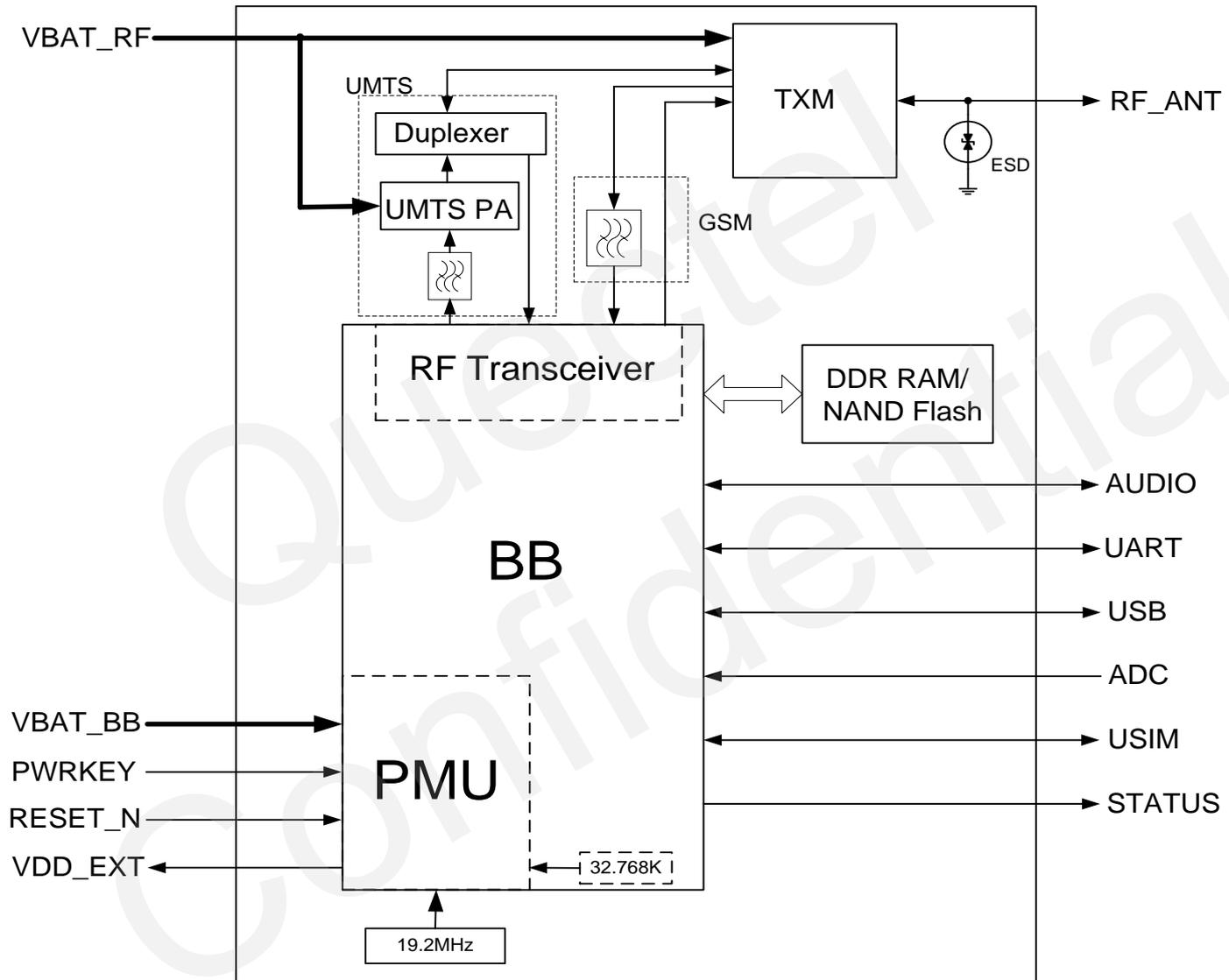
-40°C ~ +85°C

Mechanical Dimensions



Length: 29.0 mm (± 0.15 mm)
Width: 29.0 mm (± 0.15 mm)
Height: 2.5 mm (± 0.2 mm)
Weight: Approx. 4.3g

Hardware Architecture



Software Advantages

USB Serial Drivers

- Windows XP/ Vista/ 7/ 8/
Windows Mobile 6.1/6.5*
- Windows CE5.0/6.0/7.0
- 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: Windows CE6.0*,
Windows Mobile 6.1/6.5 *
- MUX: Linux 2.6 or later
Android 2.3 or later

Flexible Applications

- eCall
- SIM card detection
- DTMF

Abundant Protocols

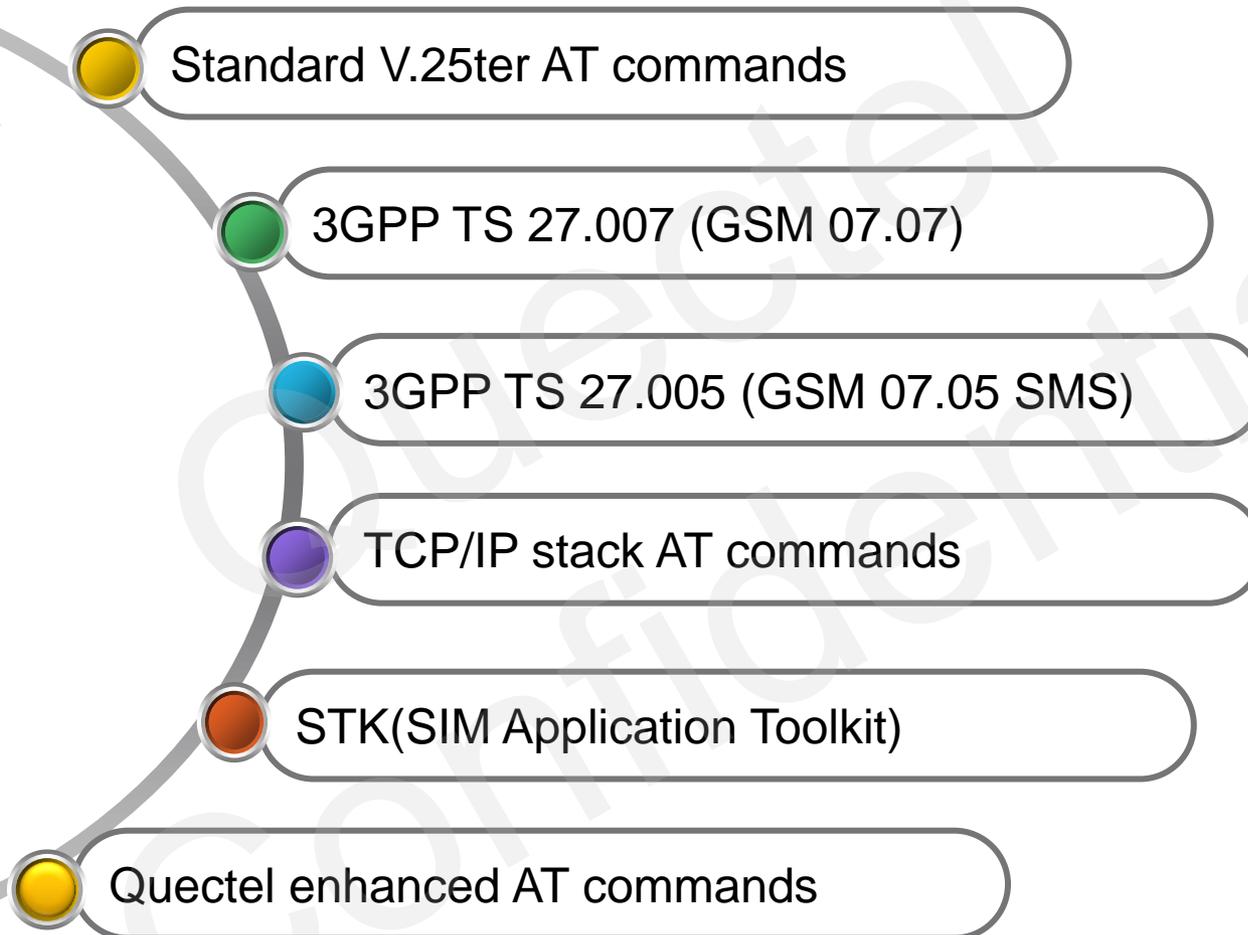
- TCP, UDP, PPP
- SMS
- FTP, HTTP, MMS, SMTP
- MUX, SSL

Special Features

- QuecFOTA
- QuecFile
- QuecLocator
- Over Temp.& Voltage Protection

* Under development

Enhanced AT Commands



Target Applications



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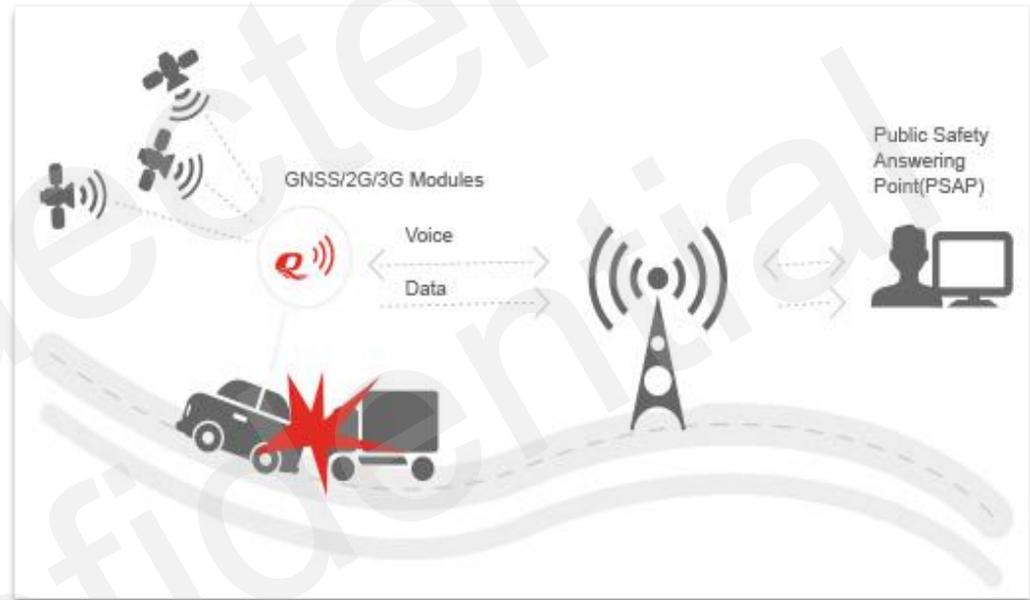
Support Package



UC15 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".

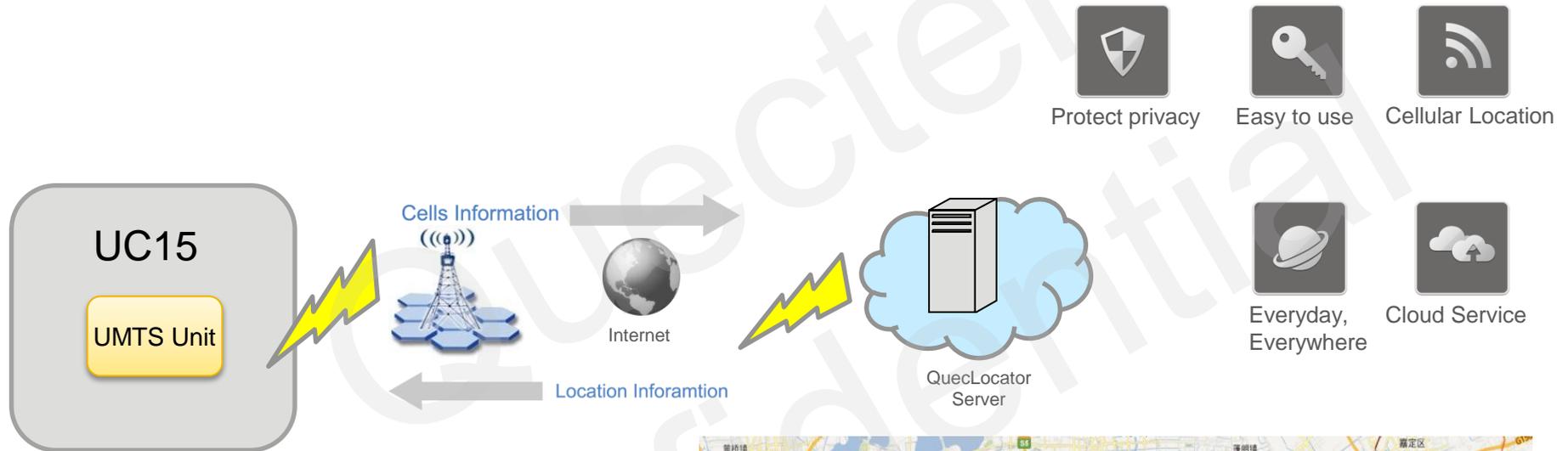


- *Quectel supports eCall in 2G Modules as well and has been working on eCall since late 2011.*
- *Quectel has enough development experience on eCall to support and assist with customer's eCall application development.*

QuecLocator

QuecLocator, Quectel Cell Locate Technology

Since Quectel modules have its own cloud server, customers can be free to get cell location information through Internet.

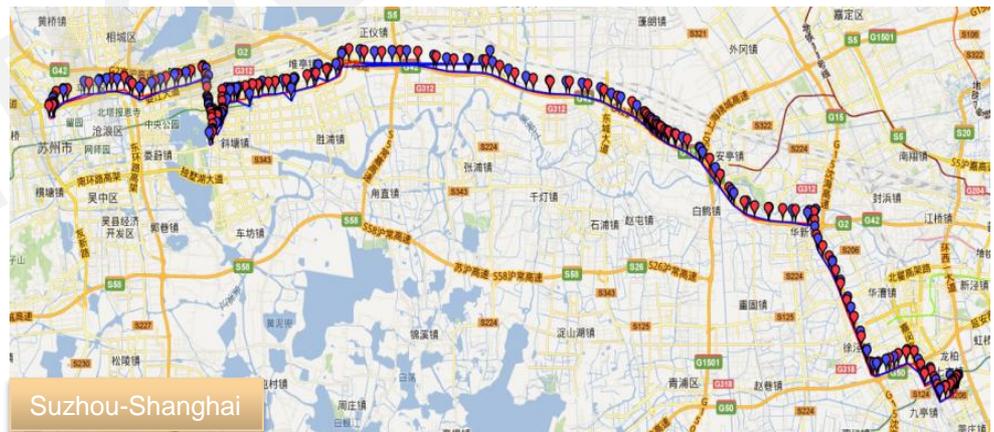


Field Test Result



GPS signal records

UMTS signal records

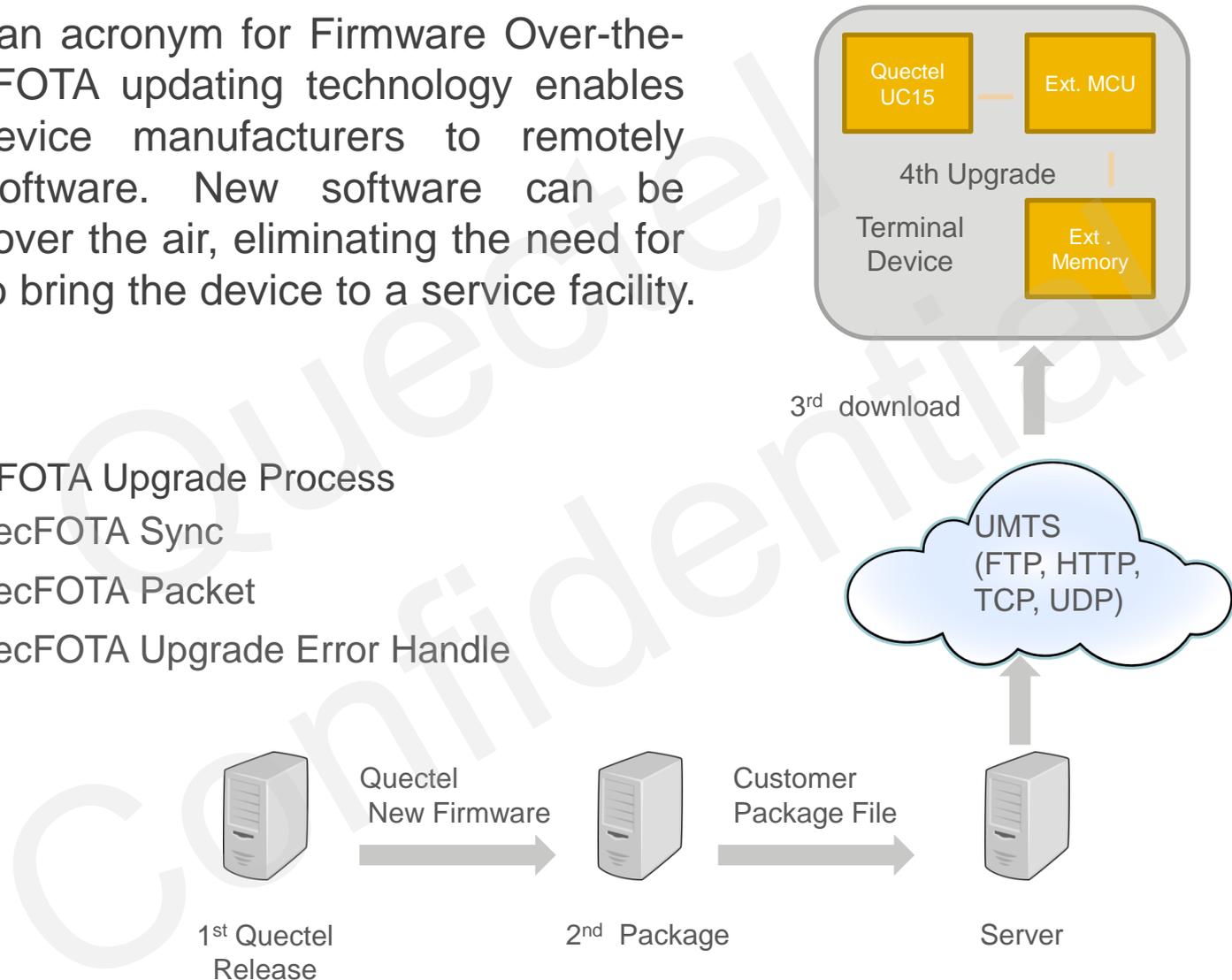


QuecFOTA

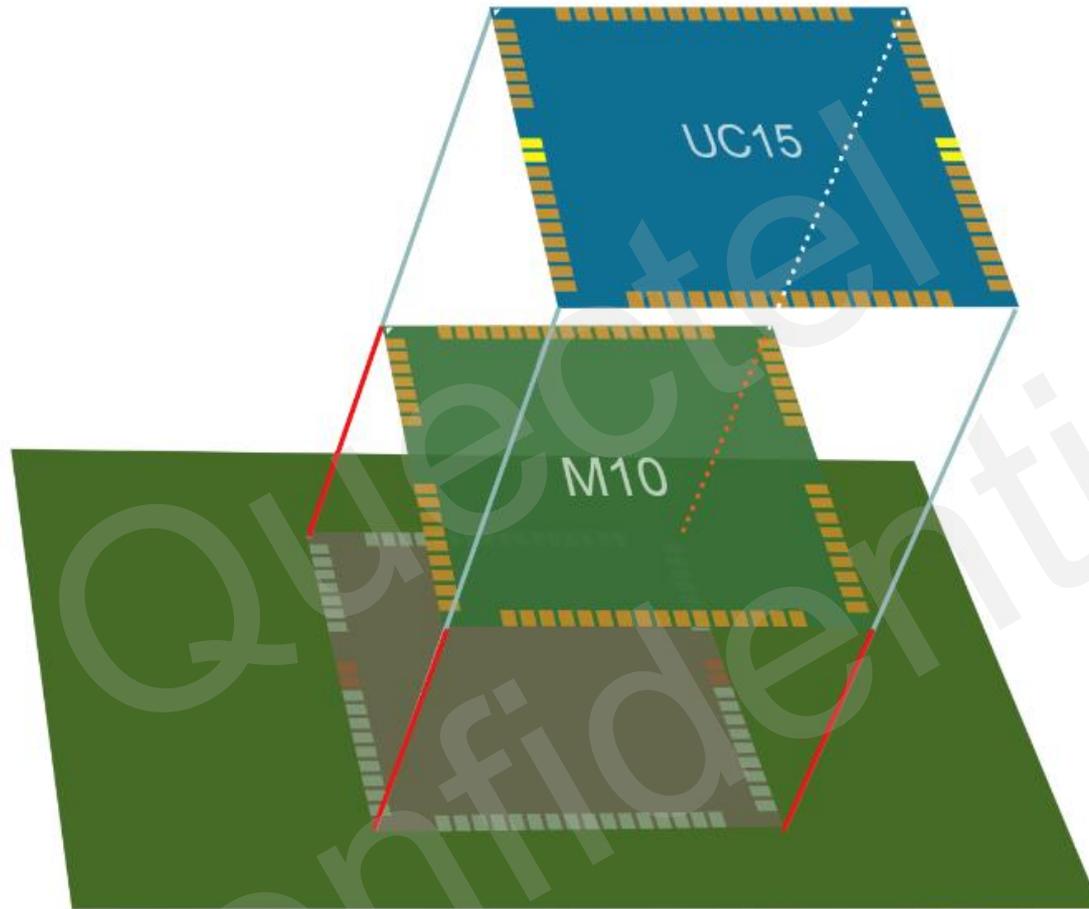
FOTA is an acronym for Firmware Over-the-Air. QuecFOTA updating technology enables mobile device manufacturers to remotely update software. New software can be delivered over the air, eliminating the need for the user to bring the device to a service facility.

QuecFOTA Upgrade Process

- QuecFOTA Sync
- QuecFOTA Packet
- QuecFOTA Upgrade Error Handle



Layout Compatibility



UC15 is compatible with GSM/GPRS M10 module. Compatibility design accommodates both M10 and UC15 modules on the same PCB footprint.

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UC15 Vs. Competitors' Products

Feature	UC15	Sx808	Ux910 V2	Sxx5320	Mx509
Platform	QSC6270	QSC6270	QSC6270	QSC6270	QSC6270
Package	LCC	LGA	LGA	LCC	LGA
Dimension	29x29x2.5 mm	25x30x2.35 mm	28.2x28.2x2.2 mm	30x30x2.9 mm	30x30x2.65 mm
Supply Voltage	3.3 to 4.3 V	3.3 to 4.3V	3.4 to 4.2V	3.4 to 4.2V	3.3 to 4.2V
Data Rate	DL 3.6 Mbps UL 384 Kbps	DL 3.6 Mbps UL 384 Kbps	DL 3.6 Mbps UL 384 Kbps	DL 3.6 Mbps UL 384 Kbps	DL 3.6 Mbps UL 384 Kbps
Voice	Supported (digital & analog)	Optional (digital & analog)	Optional (digital & analog)	Supported (digital & analog)	Supported (digital & analog)
eCall	Supported	Unknown	Unknown	Supported	Not supported
Over Temp&Voltage Protection	Supported	Unknown	Unknown	Supported	Not supported
Compatibility with 2G Module	With M10	With SL6087	With GE910	Not supported	Not supported
Temperature Range	-40°C ~ +85°C	-30°C ~ +75°C	-30°C ~ +85°C	-30°C ~ +80°C	-30°C ~ +75°C
Quec Enhanced Function	QuecFile QuecFOTA ...				

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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

