QUECTEL

Quectel EG915N Series LTE Standard Module

Introduction

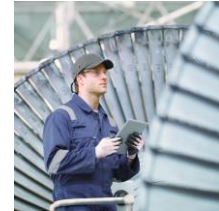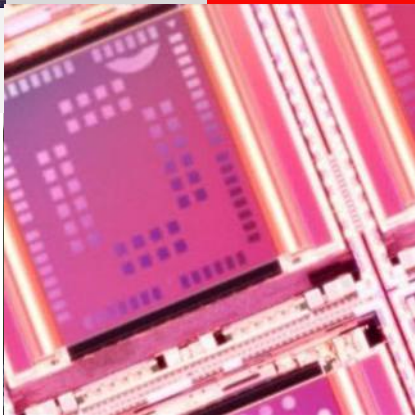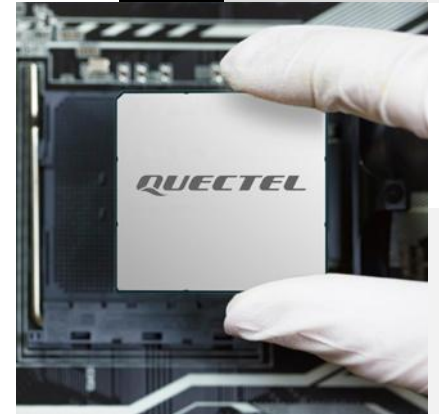Build a Smarter World

Duty of Confidentiality

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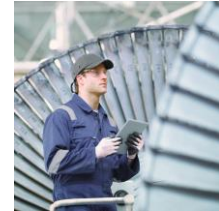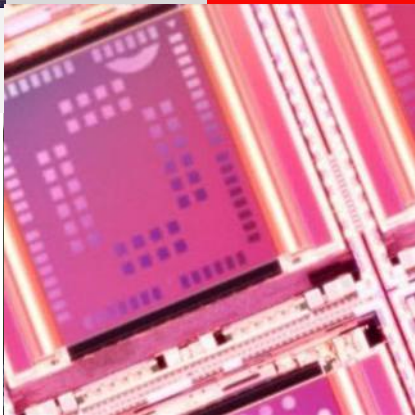
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Highlights

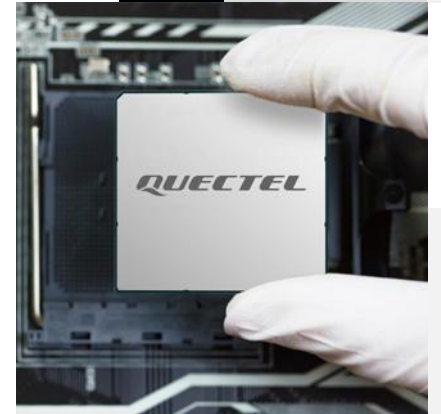Specifications & Timelines

Enhanced Technologies

Typical Applications

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EG915N Series Highlights

19.9 mm

23.6 mm

QUECTEL

EG915N-XX   Q1-XXXXX

XX

EG915NXXXX-XXX-XXXXX
SN:XXXXXXXXXXXXXX
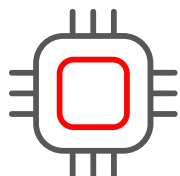IMEI:XXXXXXXXXXXXXXX

Variants covering Europe and Latin America
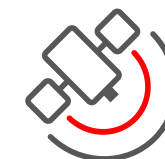
Wi-Fi scanning

Classic Form Factor: 23.6 × 19.9 × 2.4 mm

Chip platform: ASR 1603

Built-in GNSS function (Optional)

EG915N Main Highlights

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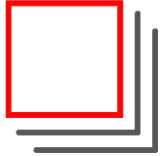
Compatible

- GSM/ GPRS M95 module
- LTE Cat M1/ Cat NB2/ EGPRS BG95 series modules
- LTE Cat M1/ Cat NB1/ EGPRS BG96 module
- LTE Cat 1 EG91 series modules
- LTE Cat 4 EG95 series modules

Competitive

- Higher integration with SIP Flash solution adopted
- Highly price-competitive
- Ultra-small size
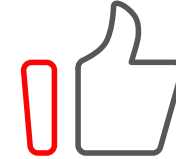
Reliable

- Meet the standards of the IoT industry and related regional certifications
- Conduct detailed internal tests to meet industry standards for industrial-grade products

Highlights

Specifications & Timelines

Enhanced Technologies

Typical Applications

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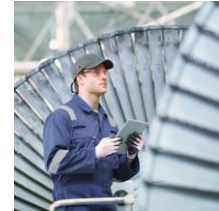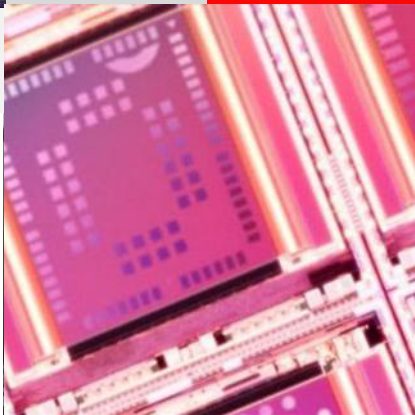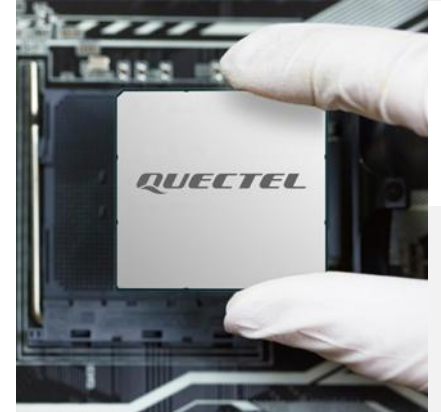
EG915N Series Specifications

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Variant		EG915N-EU	EG915N-LA
Region		Europe	Latin America
Chipset		ASR1603	ASR1603
LTE	**FDD Band**	B1/ 3/ 7/ 8/ 20	B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
	TDD Band	-	-
GSM		B3/ 8	B2/ 3/ 5/ 8
QuecLocator®		Supported	Supported
Analog Audio		Supported	Supported
VoLTE		Supported	Supported
Wi-Fi Scan		Supported	Supported
DFOTA		Supported	Supported
Regulatory Certificate		CE/ UKCA/ RCM	FCC*/Anatel*

*: In progress

EG915N-EU Timeline

2021			2022								
Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.

Project Schedule

ES   **CS**   **MP**

ES: Engineering samples ready. Basic functions are available for customers' simple demo purpose.
CS: Commercial samples ready. Stable hardware design and quite stable software design. New software features can be added upon request.
MP: Hardware and software ready for mass production. For certification status, please refer to the certification schedule below.

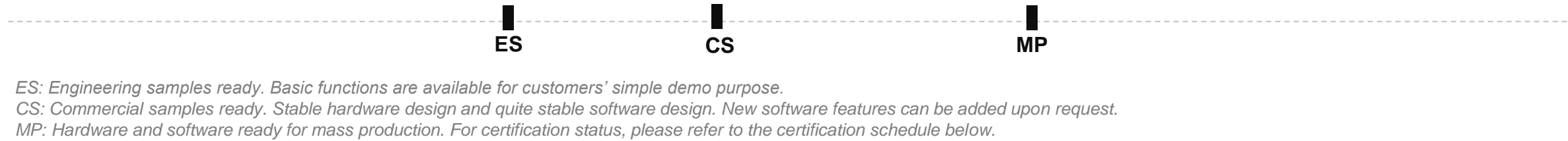## Certification

Regulatory	CE/ UKCA/ RCM	Completed
Others	WHQL	Completed

EG915N-LA Timeline

	2022									2023		
Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.

Project Schedule

ES　　　　　**CS**　　　　　**MP**

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Certification

Regulatory	FCC/Anatel		Completed

start (planned)　　　　　**complete (planned)**
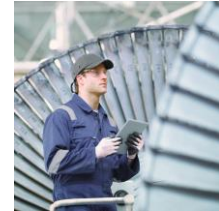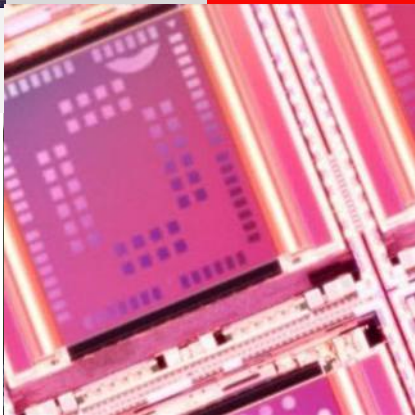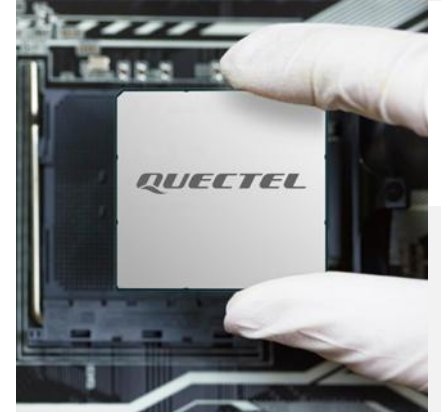
Others	WHQL		Completed

Highlights

Specifications & Timelines

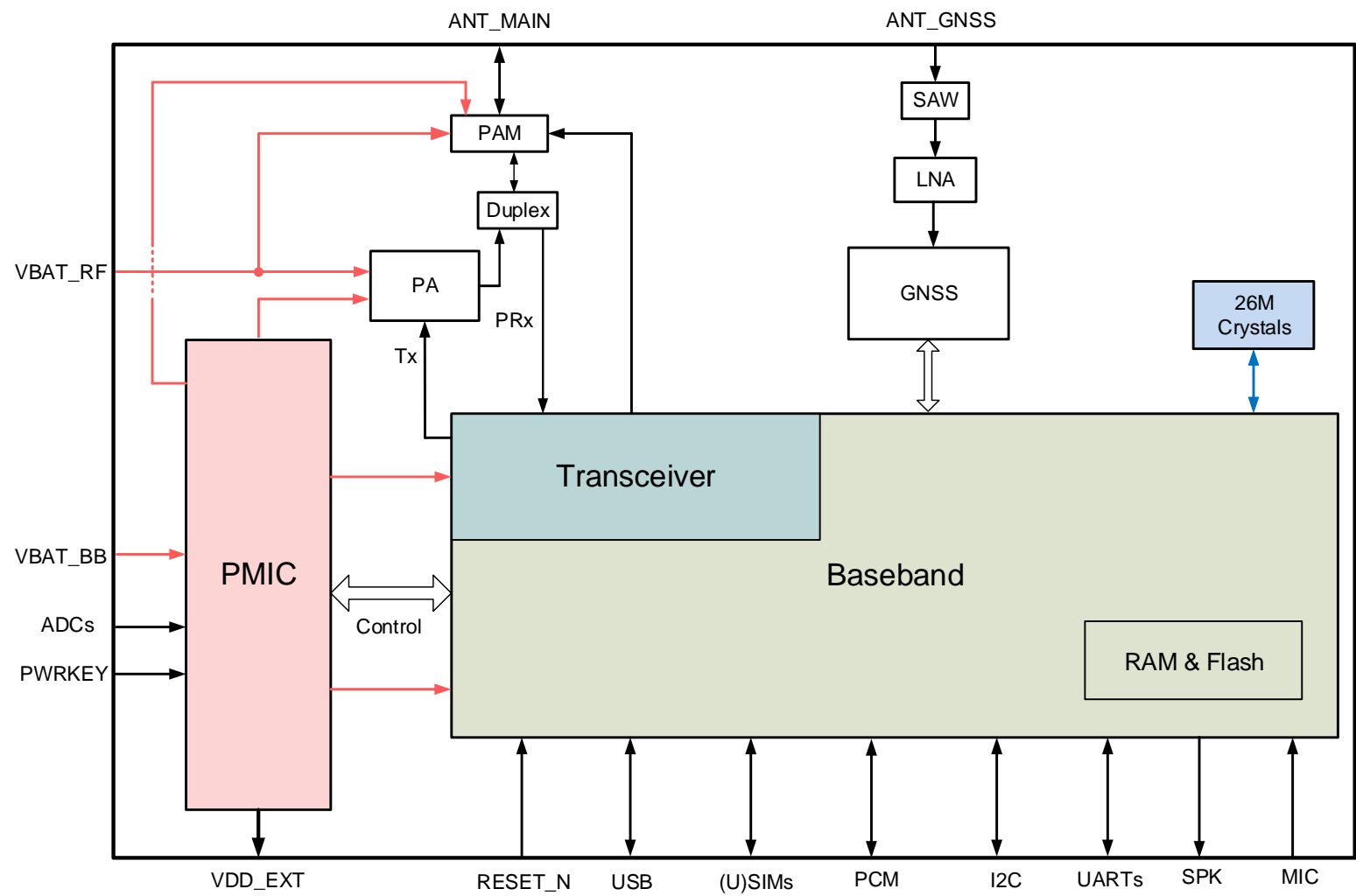# Enhanced Technologies

Typical Applications

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EG915N-EU Hardware Architecture

EG915N-LA Hardware Architecture

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ANT_MAIN

ANT_GNSS

PAM	SAW
Duplex	LNA
PA	GNSS

VBAT_RF

PRx

Tx

26M Crystals

Transceiver

Baseband

PMIC

VBAT_BB

Control

PWRKEY

RAM & Flash

VDD_EXT RESET_N USB (U)SIMs PCM I2C UARTs SPK MIC
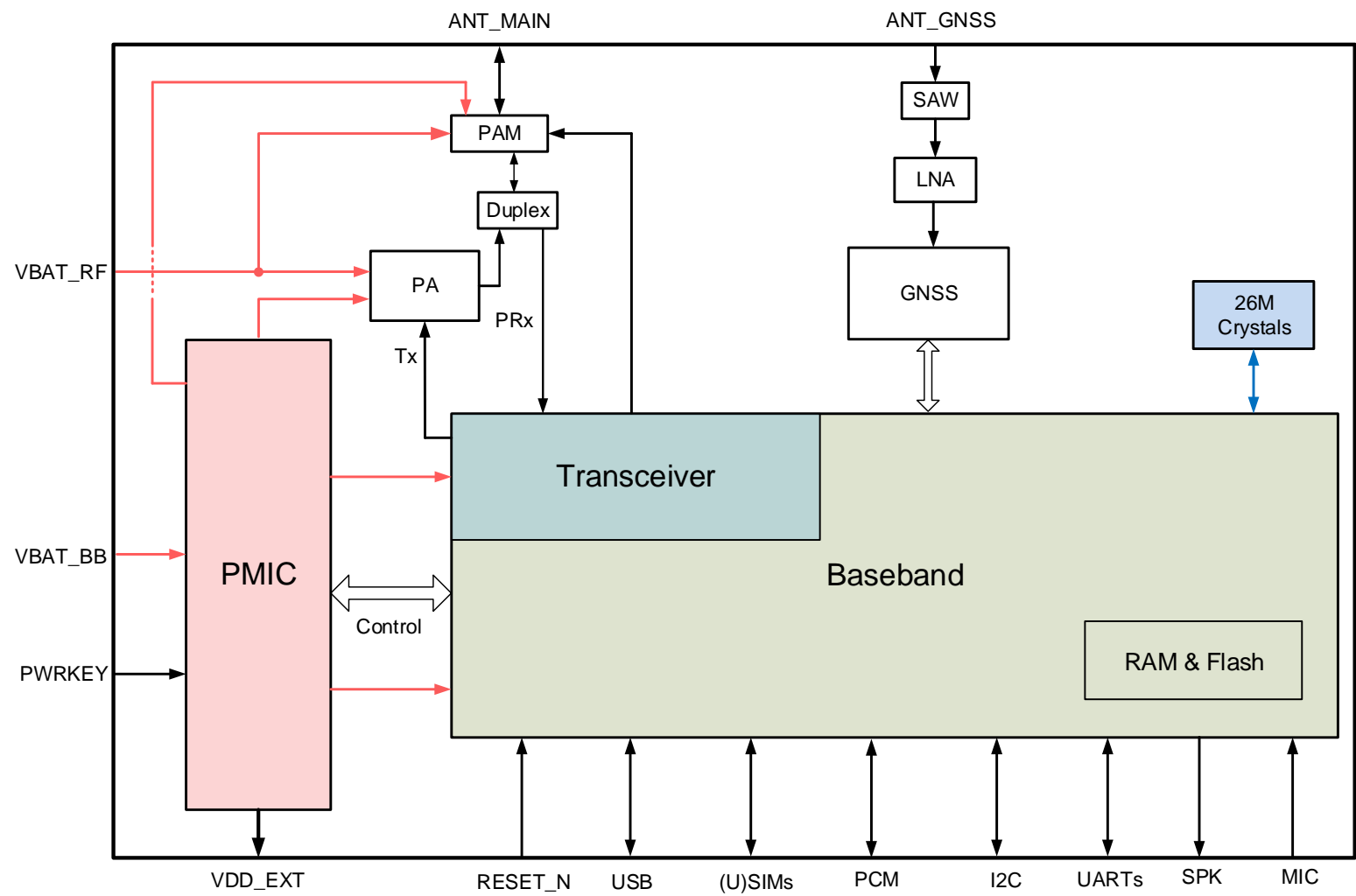
Software Advantages

USB Serial Driver

- Windows 8/ 8.1/ 10/ 11
- Linux 2.6–6.5
- Android 4.x–13.x

Other Drivers

- RIL Driver: Android 4.x–13.x
- USB RNDIS Driver:
  Windows 8/ 8.1/ 10/ 11
  Linux 2.6–6.5
- USB ECM Driver:
  Linux 2.6–6.5
- GNSS Driver:
  Android 4.x~13.x

Quality Guarantee

- Reliable network protocols
- Steady flash protection mechanism
- Superior audio algorithms

Flexible Applications

- (U)SIM card detection
- DTMF

Special Features

- DFOTA
- QuecLocator®
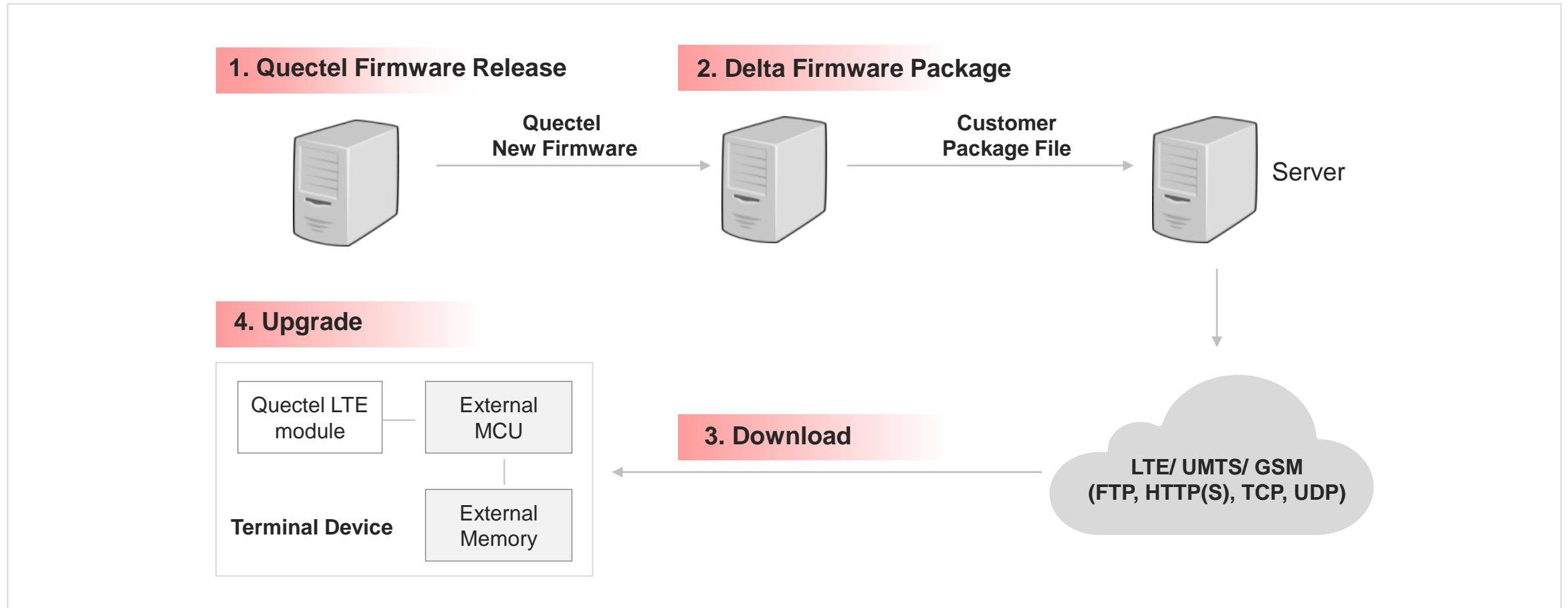
Enhanced AT Commands

- 3GPP TS 27.007
- 3GPP TS 27.005
- Quectel enhanced AT commands
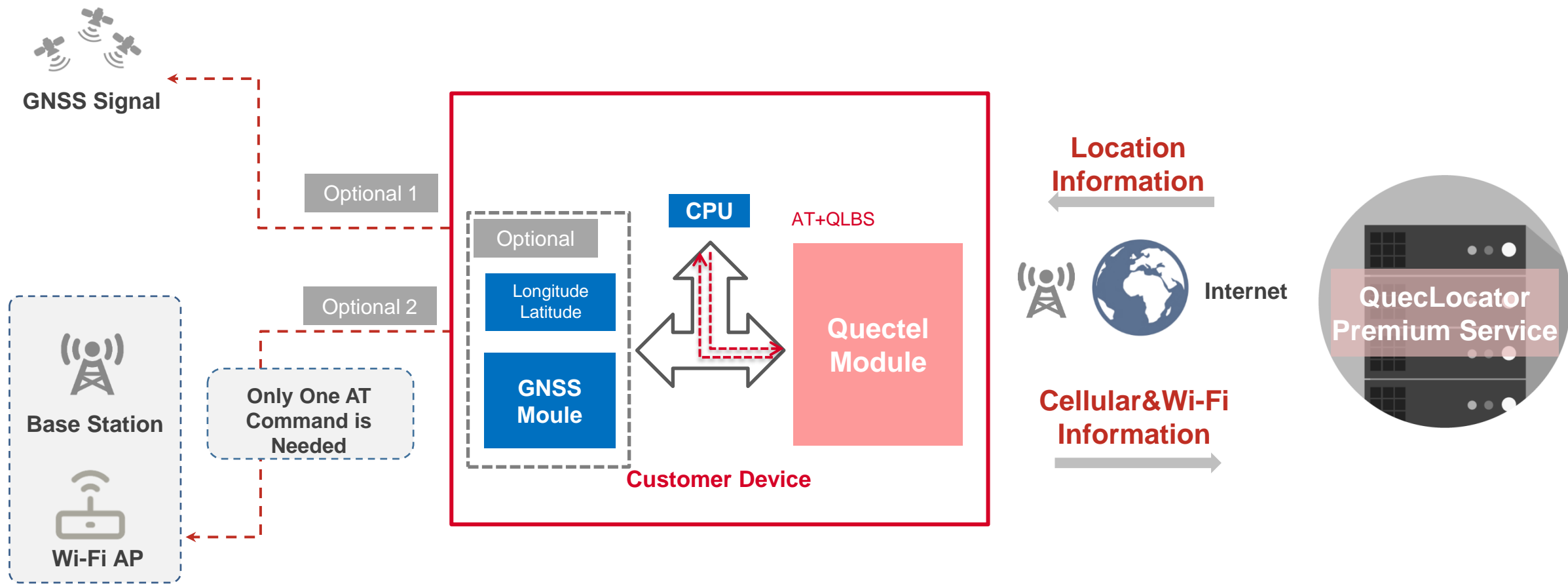
DFOTA

DFOTA (Delta Firmware Upgrade Over-The-Air)

Quick firmware upgrade through cellular networks owing to differential upgrade, delta firmware package, and fast download speed.

1. Quectel Firmware Release

2. Delta Firmware Package

Quectel
New Firmware

Customer
Package File

Server

4. Upgrade

| Quectel LTE module | External MCU |

Terminal Device | External Memory |

3. Download

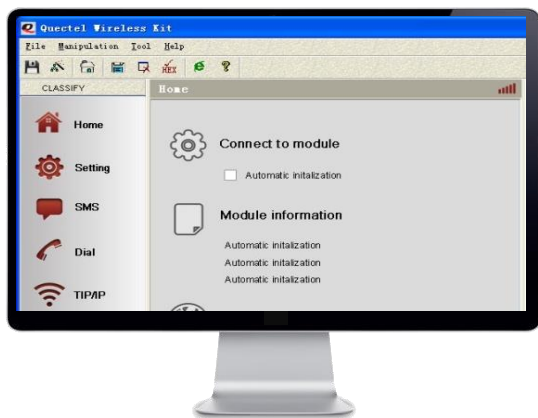**LTE/ UMTS/ GSM
(FTP, HTTP(S), TCP, UDP)**

QuecLocator ® Working Process

QUECTEL

QuecLocator ® is an easy and reliable positioning service providing secure and accurate positioning Anytime, Anywhere.

GNSS Signal

Optional 1

Optional 2

Base Station

Wi-Fi AP

Only One AT Command is Needed

Optional

Longitude Latitude

GNSS Moule

CPU

AT+QLBS

Quectel Module

Customer Device

Location Information

Internet

Cellular&Wi-Fi Information

QuecLocator Premium Service

NOTE: There is no need for extra GNSS modules when using QuecLocator ®.

Support Package

Quectel provides a graphical user interface (GUI) tool QNavigator, which can help customers quickly test the functions of Quectel modules.
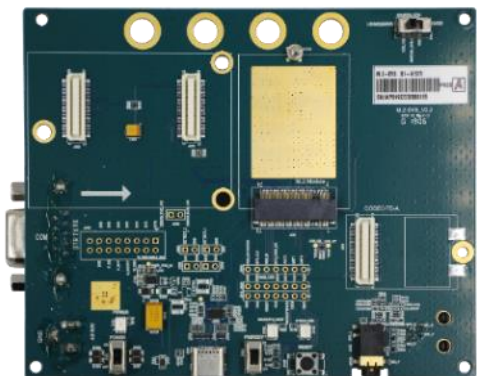
EVB Kit
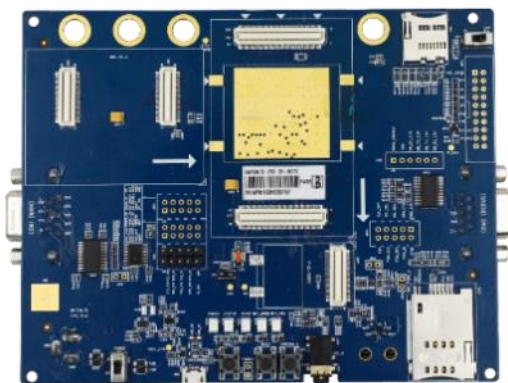
LCC & LGA Module EVB
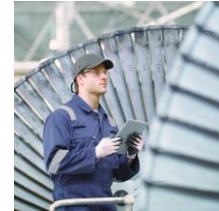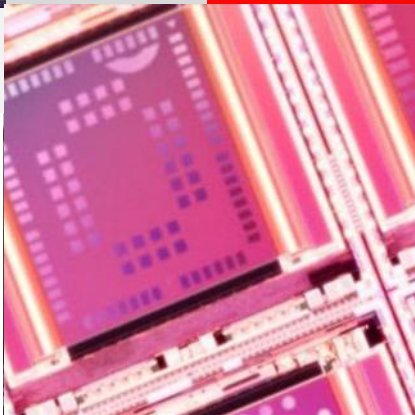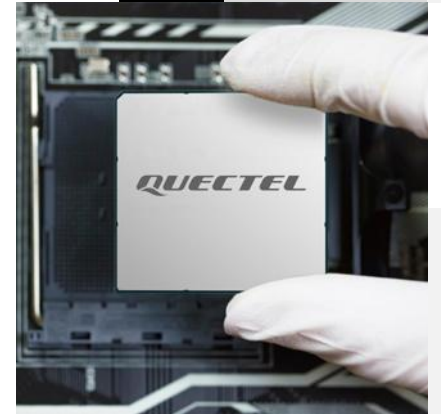
Mini PCIe Module EVB

M.2 Module EVB

Highlights

Specifications & Timelines

Enhanced Technologies

Typical Applications

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Typical Applications

Intelligent Transportation

- IoV
- CVI
- Vehicle Tracking
- Asset Tracking
- Ship Tracking

- Fleet Management
- OBD
- DVR
- UBI

Smart Energy

- Ammeter
- Gas Meters
- Water Meters
- Thermal Meters
- Smart Grid
- Wind Generators
- Solar Power Generation
- Charging Piles

Payment

- Wireless POS
- Cash Registers
- ATM
- Vending Machines
- Top-up Machines

Typical Applications

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Smart City

- Street Lighting
- Traffic Lights
- Sharing Economy
- Elevator Video Record
- Smart Parking
- Parking Meters
- Toll Collection Systems
- Digital Indicators
- Advertising Boards
- Smart Bins
- LED Landscape Lighting Control

Wireless Gateway

- DTUs
- Consumers Routers
- Industrial Routers
- VoIP
- Servers
- Wi-Fi Hotspots

Intelligent Agriculture & Environmental Monitoring

- Food Traceability
- Farmland Monitoring
- Farm Management
- Meteorological Stations
- Wildlife Protection
- Farm Irrigation
- Environmental Monitoring

DTU: Data Transfer Unit   VoIP: Voice over Internet Protocol   Version: 1.2 | Status: Released

QUECTEL

The number one cellular module vendor in the world and a leading GNSS module supplier

- Unbeatable choice from the broadest module portfolio in the world
- High quality range of off-the-shelf and customized antennas
- Superb support with the largest R&D team in the industry
- Continuous innovation in 5G, LPWA, Automotive, and Smart module technology
- A passionate, dedicated team of "Quectelers" ensures our customers always come first

Thank You

Build a Smarter World

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