



Quectel LTE Standard & UMTS Module

Product Overview

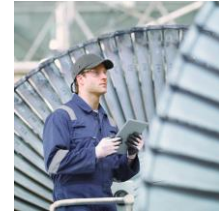
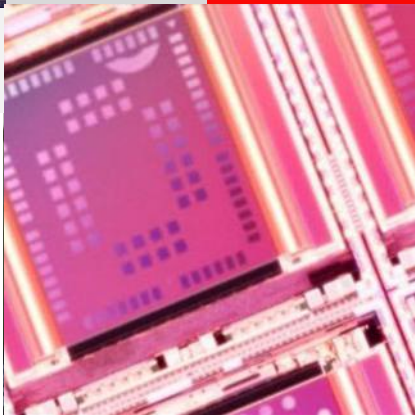
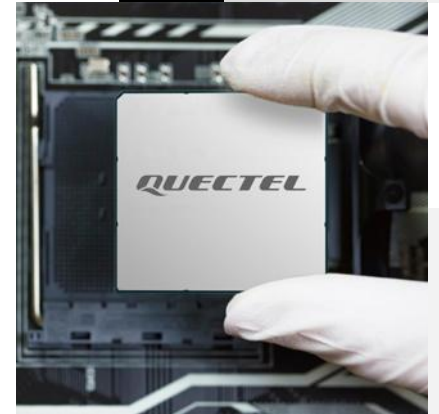
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Product Portfolio

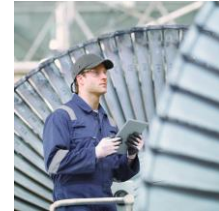
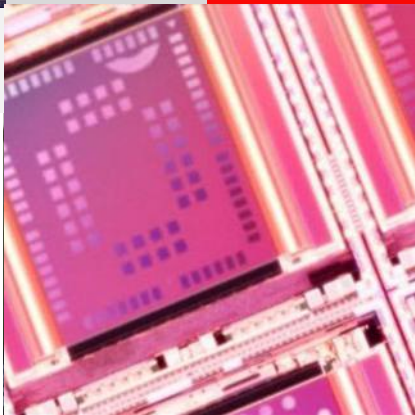
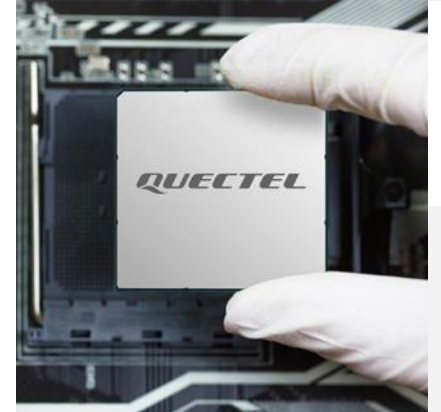
Specifications & Timelines

Product Advantages

Typical Applications

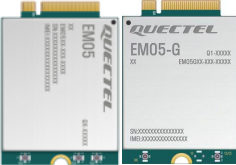
Customer Support

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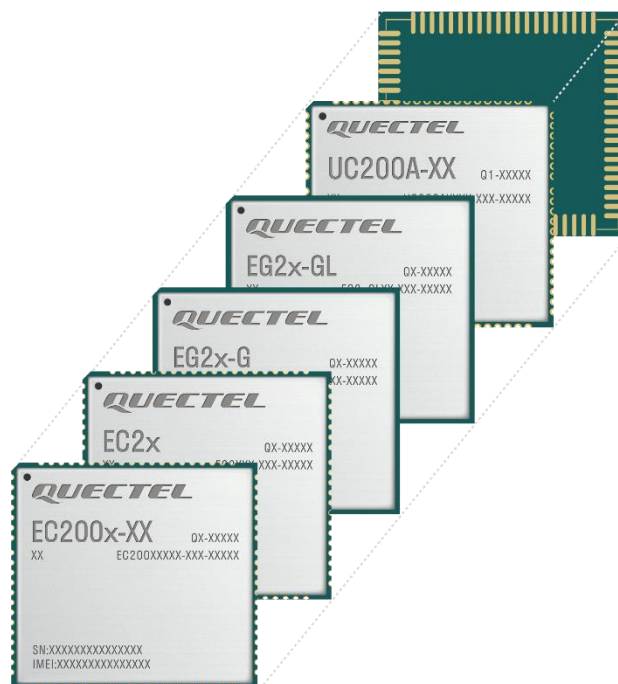


LTE Standard & UMTS Product Portfolio



	EC2x/ EC200x/ EG2x/ UC200A Series (LCC + LGA)	EG9x/ EG91xx/ EG950A Series (LGA)	EG800Q Series (LGA)	EM05 Series (M.2)
Cat 4	 EC25 series/ EC20-CE • MDM9x07 • 4G + 3G + 2G  EC200A series • ASR1803 • 4G + 3G + 2G + GNSS  EG25-G/ EG25-GL NEW • MDM9x07 • 4G + 3G + 2G • Global	 EG95 series • MDM9x07 • 4G + 3G + 2G  EG950A series • ASR1803S • 4G + 3G + GNSS		 EM05 series • MDM9x07 • 4G + 3G + 2G
Cat 1	 EC21 series • MDM9x07 • 4G + 3G + 2G  EC200U series • UIS8910 • 4G + 2G + GNSS  EG21-G/ EG21-GL NEW • MDM9x07 • 4G + 3G + 2G • Global	 EG91 series • MDM9x07 • 4G + 3G + 2G  EG912N-EN • ASR1603 • 4G + 2G • 29.0 × 25.0 mm • 450 MHz  EG912U-GL • UIS8910 • 4G + 2G + GNSS • 29.0 × 25.0 mm • Global  EG916Q-GL NEW • QCX216 • 4G • GNSS (Optional) • 26.5 × 22.5 mm  EG915Q-NA NEW • QCX216 • 4G + GNSS (Optional) • 23.6 × 19.9 mm  EG915N series • ASR1603 • 4G + 2G + GNSS • 23.6 × 19.9 mm  EG915U series • UIS8910 • 4G + 2G • 23.6 × 19.9 mm	 EG800Q series • QCX216 • 4G • 17.7 × 15.8 mm	
UMTS	 UC200A-GL • ASR1803 • 3G + 2G • Global			

Form Factor of LTE Standard & UMTS Modules



EC2x Series & EG2x-G(L) are compatible with:

- LTE Cat 1 module **EC200U Series**
- LTE Cat 4 module **EC200A Series**
- UMTS/ HSPA+ module **UC200A-GL**



EG9x Series are compatible with:

- GSM/ GPRS module **M95**
- LTE Cat NB module **BC95-G**
- LTE Cat M/ Cat NB/ EGPRS module **BG96/ BG95 Series**
- LTE Cat 1 **EG915U Series/ EG915N Series/ EG912N-EN/ EG912U-GL**
- LTE Cat 1 bis **EG915Q-NA/ EG916Q-GL**



Product Portfolio

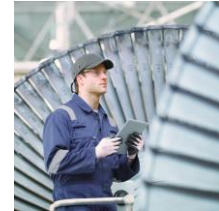
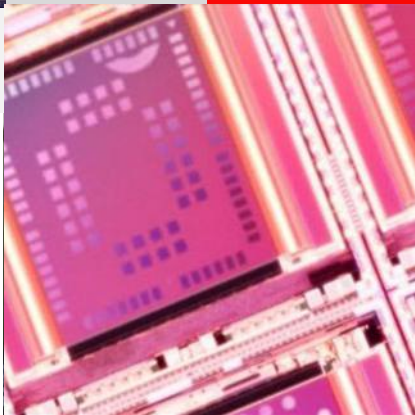
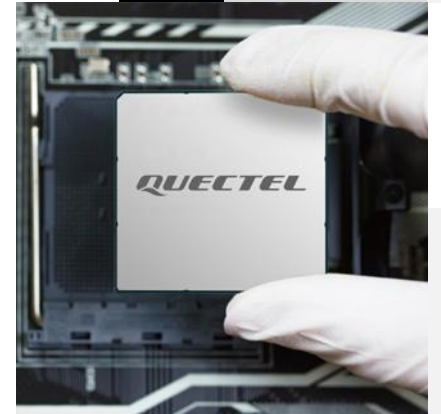
Specifications & Timelines

Product Advantages

Typical Applications

Customer Support

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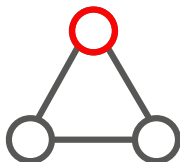
EC2x/ EG2x-G(L) Series Highlights



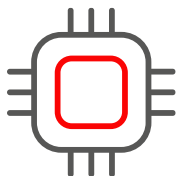
Worldwide certification,
covering multiple regions.



Enhanced features
such as DFOTA, GNSS,
VoLTE, QuecOpen®.



Highly reliable bulk shipments:
delivery guaranteed.



Mature platform:
Qualcomm **MDM9x07** based.

EC25 Series Specifications

29.0 mm × 32.0 mm × 2.4 mm
150 Mbps DL/ 50 Mbps UL



Variant		EC25-A	EC25-ADL	EC25-V	EC25-AF	EC25-AFDL (Data-only)	EC25-AFX	EC25-AFXD (Data-only)	EC25-AU	EC25-AUX
Region		North America	North America	Verizon	North America	North America	North America	North America	Latin America/ Australia/ New Zealand	Latin America/ Australia/ New Zealand
Chipset		MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07
LTE	FDD Band	B2/ 4/ 12	B2/ 4/ 12	B4/ 13	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71	B1/ 2 ^① / 3/ 4/ 5/ 7/ 8/ 28	B1/ 2 ^① / 3/ 4/ 5/ 7/ 8/ 28
	TDD Band	-	-	-	-	-	-	-	B40	B40
UMTS	WCDMA Band	B2/ 4/ 5	-	-	B2/ 4/ 5	-	B2/ 4/ 5	B2/ 4/ 5	B1/ 2/ 5/ 8	B1/ 2/ 4/ 5/ 8
	TD-SCDMA Band	-	-	-	-	-	-	-	-	-
EVDO/ CDMA		-	-	-	-	-	-	-	-	-
GSM		-	-	-	-	-	-	-	Quad-band	Quad-band
Embedded GNSS		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Wi-Fi/ Bluetooth Interface		Supported	Supported	Supported	Supported	Supported	-	-	Supported	-
Ethernet Interface		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Mini PCIe Form Factor		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
DFOTA		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Open Solution		QuecOpen®	QuecOpen®	QuecOpen®	QuecOpen®	QuecOpen®	-	-	QuecOpen®	-
Certification	Carrier	AT&T/ T-Mobile/ Rogers/ Telus	AT&T/ T-Mobile	Verizon	Verizon/ AT&T (FirstNet)/ T-Mobile/ U.S. Cellular/ Rogers/ Telus	Verizon/ AT&T (FirstNet)/ T-Mobile/ U.S. Cellular/ Rogers/ Telus	Verizon/ AT&T (FirstNet)/ U.S. Cellular/ Telus	Verizon/ AT&T (FirstNet)/ T-Mobile/ U.S. Cellular/ Telus/ Rogers	Telstra	-
	Regulatory	PTCRB/ FCC/ IC	PTCRB/ FCC/ IC	GCF/ FCC	GCF/ PTCRB/ FCC/ IC	GCF/ PTCRB/ FCC/ IC	GCF/ PTCRB/ FCC/ IC	GCF/ PTCRB/ FCC/ IC	GCF/ FCC/ Anatel/ NCC/ RCM	CE/ FCC/ Anatel/ RCM/ ICASA
	Others	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL
Project Stage		MP	MP	MP	MP	MP	MP	MP	MP	MP

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EC25 Series/ EC20-CE/ EG25-G/ EG25-GL Specifications

29.0 mm × 32.0 mm × 2.4 mm
150 Mbps DL/ 50 Mbps UL



Variant		EC25-EU	EC25-EUX	EC25-E	EC25-EM	EC25-J	EC20-CE	EG25-G	EG25-GL
Region		EMEA/ Thailand	EMEA/ Thailand	EMEA/ South Korea/ Thailand/ India	EMEA/ Southeast Asia	Japan	China/ India	Global	Global
Chipset		MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07
LTE	FDD Band	B1/ 3/ 7/ 8/ 20/ 28A	B1/ 3/ 7/ 8/ 20/ 28A	B1/ 3/ 5/ 7/ 8/ 20	B1/ 3/ 5/ 7/ 8/ 20/ 28	B1/ 3/ 8/ 18/ 19/ 26	B1/ 3/ 5/ 8	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 28/ 66
	TDD Band	B38/ 40/ 41	B38/ 40/ 41	B38/ 40/ 41	B38/ 40/ 41	B41	B34/ 38/ 39/ 40/ 41	B38/ 39/ 40/ 41	B34/ 38/ 39/ 40/ 41
UMTS	WCDMA Band	B1/ 8	B1/ 8	B1/ 5/ 8	B1/ 5/ 8	B1/ 6/ 8/ 19	B1/ 8	B1/ 2/ 4/ 5/ 6/ 8/ 19	B1/ 2/ 4/ 5/ 6/ 8/ 19
	TD-SCDMA Band	-	-	-	-	-	B34/ 39	-	-
EVDO/ CDMA		-	-	-	-	-	BC0	-	-
GSM		900/ 1800 MHz	900/ 1800 MHz	900/ 1800 MHz	900/ 1800 MHz	-	900/ 1800 MHz	Quad-band	Quad-band
Embedded GNSS		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Wi-Fi/ Bluetooth Interface		Supported	-	Supported	-	Supported	Supported	Supported	-
Ethernet Interface		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Mini PCIe Form Factor		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
DFOTA		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Open Solution		QuecOpen®	-	QuecOpen®	QuecOpen®	QuecOpen®	QuecOpen®	-	-
Certification	Carrier	Deutsche Telekom/ British Telecom	Vodafone/ Deutsche Telekom	Vodafone/ Deutsche Telekom/ British Telecom/ KT/ SKT/ Telefónica/ LGU+	-	NTT DOCOMO/ SoftBank/ KDDI	-	Deutsche Telekom/ Verizon/ AT&T/ T-Mobile/ Sprint/ U.S. Cellular/ Telus/ Rogers	AT&T/ T-Mobile/ Verizon*/ Telstra*
	Regulatory	GCF/ CE/ UKCA/ NCC/ RCM	GCF/ CE/ UKCA/ NCC/ RCM/ KC	GCF/ CE/ UKCA/ KC/ NCC/ RCM/ NBTC/ ICASA	CE/ RCM	JATE/ TELEC	SRRC/ NAL/ CCC	GCF/ CE/ PTCRB/ FCC/ UKCA/ IC/ Anatel/ IFETEL/ SRRC/ NAL/ CCC/ KC/ NCC/ JATE/ TELEC/ RCM/ NBTC/ IMDA/ ICASA	SRRC/ NAL/ CCC/ GCF/ CE/ PTCRB/ FCC/ IC/ NCC/ RCM/ JATE/ TELEC/ Anatel/ KC
	Others	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL
Project Stage		MP	MP	MP	CS	MP	MP	MP	MP (without carrier certificates)

EC21 Series/ EG21-G/ EG21-GL Specifications

29.0 mm × 32.0 mm × 2.4 mm
10 Mbps DL/ 5 Mbps UL



Variant		EC21-A	EC21-V	EC21-AU	EC21-AUX	EC21-E	EC21-EU	EC21-EUX	EC21-KL	EC21-J	EG21-G	EG21-GL
Region		North America	Verizon	Latin America/ Australia/ New Zealand	Latin America/ Australia/ New Zealand	EMEA/ Thailand/ India	EMEA/ Thailand	EMEA/ Thailand	South Korea	Japan	Global	Global
Chipset		MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07
LTE	FDD Band	B2/ 4/ 12	B4/ 13	B1/ 2 ^① / 3/ 4/ 5/ 7/ 8/ 28	B1/ 2 ^① / 3/ 4/ 5/ 7/ 8/ 28	B1/ 3/ 5/ 7/ 8/ 20	B1/ 3/ 7/ 8/ 20/ 28A	B1/ 3/ 7/ 8/ 20/ 28A	B1/ 3/ 5/ 7/ 8	B1/ 3/ 8/ 18/ 19/ 26	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 28/ 66
	TDD Band	-	-	B40	B40	-	-	-	-	-	B38/ 39/ 40/ 41	B34/ 38/ 39/ 40/ 41
UMTS	WCDMA Band	B2/ 4/ 5	-	B1/ 2/ 5/ 8	B1/ 2/ 5/ 8/ 4	B1/ 5/ 8	B1/ 8	B1/ 8	-	-	B1/ 2/ 4/ 5/ 6/ 8/ 19	B1/ 2/ 4/ 5/ 6/ 8/ 19
	TD-SCDMA Band	-	-	-	-	-	-	-	-	-	-	-
EVDO/CDMA		-	-	-	-	-	-	-	-	-	-	-
GSM		-	-	Quad-band	Quad-band	900/ 1800 MHz	900/ 1800 MHz	900/ 1800 MHz	-	-	Quad-band	Quad-band
Embedded GNSS		Optional	Optional	Optional	Optional	Optional	Optional	Optional	-	-	Optional	Optional
Wi-Fi/ Bluetooth Interface		Supported	Supported	Supported	-	Supported	Supported	-	Supported	Supported	-	-
Ethernet Interface		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Mini PCIe Form Factor		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
DFOTA		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Open Solution		QuecOpen®	QuecOpen®	QuecOpen®	-	QuecOpen®	QuecOpen®	-	QuecOpen®	QuecOpen®	-	-
Certification	Carrier	AT&T/ T-Mobile/ U.S. Cellular/ Rogers/ Telus	Verizon	Telstra	Telstra ^②	Vodafone/ Deutsche Telekom	Deutsche Telekom	-	KT/ SKT/ LGU+	NTT DOCOMO/ KDDI	Deutsche Telekom/ Verizon/ AT&T/ Sprint/ U.S. Cellular/ T-Mobile/ Telus/ Telstra*	AT&T/ T-Mobile/ Verizon*/ Telstra*
	Regulatory	PTCRB/ FCC/ IC	GCF/ FCC	FCC/ IC/ Anatel/ NCC/ JATE/ TELEC/ RCM	CE/ FCC/ Anatel/ RCM/ ICASA	GCF/ CE/ UKCA/ RCM	GCF/ CE/ UKCA/ NCC/ RCM	GCF/ CE/ UKCA/ RCM/ KC	KC	JATE/ TELEC	GCF/ CE/ FCC/ PTCRB/ IC/ Anatel/ IFETEL/ CCC/ KC/ NCC/ JATE/ TELEC/ RCM/ ICASA	NAL/ CCC/ GCF/ CE/ PTCRB/ FCC/ IC/ SRRC/ NCC/ RCM/ JATE/ TELEC/ Anatel/ KC
	Others	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL
Project Stage		MP	MP	MP	MP	MP	MP	MP	MP	MP	MP	MP (without carrier certificates)

EC25-EM Timeline



2022									2023	2024					
Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	...	Jan.	Feb.	Mar.	Apr.	May	Jun.

Project Schedule



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.

Certification

Regulatory	CE/ RCM	-----	Completed
Others	WHQL	-----	Completed

EG25-GL Timeline



2022			2023										2024					
Oct.	Nov.	Dec.	...	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.

Project Schedule



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.

Certification



EG21-G Timeline



2023						2024					
Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.

Project Stage

EG21-G MP

Certification

Carrier	Deutsche Telekom/ Verizon/ AT&T/ Sprint/ U.S. Cellular/ T-Mobile/ Telus	Completed
	Telstra	Start Complete (Planned)
Regulatory	GCF/ CE/ FCC/ PTCRB/ IC/ Anatel/ IFETEL/ CCC/ KC/ NCC/ JATE/ TELECOM/ RCM/ ICASA	Completed
Others	WHQL	Completed

EG21-GL Timeline



2022			2023										2024					
Oct.	Nov.	Dec.	...	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.

Project Schedule



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.

Certification



EG9x Series Highlights

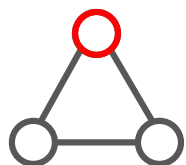


Compatible multiple variants with global market certification.

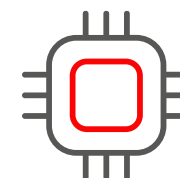


Enhanced features, such as DFOTA, GNSS, VoLTE.

Classic Form Factor: 29.0 × 25.0 × 2.3 mm (EG9x-E)
29.0 × 25.0 × 2.45 mm (EG9x-AUX/ -EX/ -NA/ -NAX/ -NAXD/ -JP/ EG91-VX)



Highly reliable bulk shipments: delivery guaranteed.



Mature platform: Qualcomm **MDM9x07** based.

EG95 Series Specifications

29.0 mm × 25.0 mm × 2.3 mm (EG95-E)
29.0 mm × 25.0 mm × 2.45 mm (EG95-NA/ -NAX/ -NAXD/ -AUX/ -EX/ -JP)
150 Mbps DL/ 50 Mbps UL



Variant		EG95-NA	EG95-NAX	EG95-NAXD (Data-only)	EG95-AUX	EG95-E	EG95-EX	EG95-JP
Region		North America	North America	North America	Latin America/ Australia/ New Zealand	EMEA	EMEA	Japan
Chipset		MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07
LTE	FDD Band	B2/ 4/ 5/ 12/ 13	B2/ 4/ 5/ 12/ 13/ 25/ 26	B2/ 4/ 5/ 12/ 13/ 25/ 26	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66	B1/ 3/ 7/ 8/ 20/ 28A	B1/ 3/ 7/ 8/ 20/ 28	B1/ 3/ 8/ 18/ 19/ 26
	TDD Band	-	-	-	-	-	-	B41
UMTS	WCDMA Band	B2/ 4/ 5	B2/ 4/ 5	B2/ 4/ 5	B1/ 2/ 5/ 8	B1/ 8	B1/ 8	-
	TD-SCDMA Band	-	-	-	-	-	-	-
EVDO/ CDMA		-	-	-	-	-	-	-
GSM		-	-	-	Quad-band	900/ 1800 MHz	900/ 1800 MHz	-
Embedded GNSS		Optional	Optional	Optional	Optional	-	Optional	Optional
Wi-Fi/ Bluetooth Interface		-	-	-	-	-	-	-
Ethernet Interface		-	-	-	-	-	-	-
DFOTA		Supported	Supported	Supported	Supported	Supported	Supported	Supported
Open Solution		QuecOpen®	-	-	-	QuecOpen®	-	-
Certification	Carrier	Verizon/ AT&T/ T-Mobile/ U.S. Cellular/ Rogers/ Telus	Verizon/ AT&T/ Sprint/ Telus	Verizon/ AT&T/ T-Mobile/ Sprint/ U.S. Cellular	Telstra ^①	-	TIM	NTT DOCOMO/ KDDI
	Regulatory	GCF/ PTCRB/ FCC/ IC	GCF/ PTCRB/ FCC/ IC	GCF/ PTCRB/ FCC/ IC	CE/ FCC/ RCM/ Anatel	GCF/ CE/ UKCA/ RCM	GCF/ CE/ UKCA/ RCM	JATE/ TELEC
	Others	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL
Project Stage		MP	MP	MP	MP	MP	MP	MP

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EG91 Series Specifications

29.0 mm × 25.0 mm × 2.3 mm (EG91-E)

29.0 mm × 25.0 mm × 2.45 mm (EG91-NA/ -NAX/ -NAXD/ -VX/ -AUX/ -EX/ -JP)

10 Mbps DL/ 5 Mbps UL



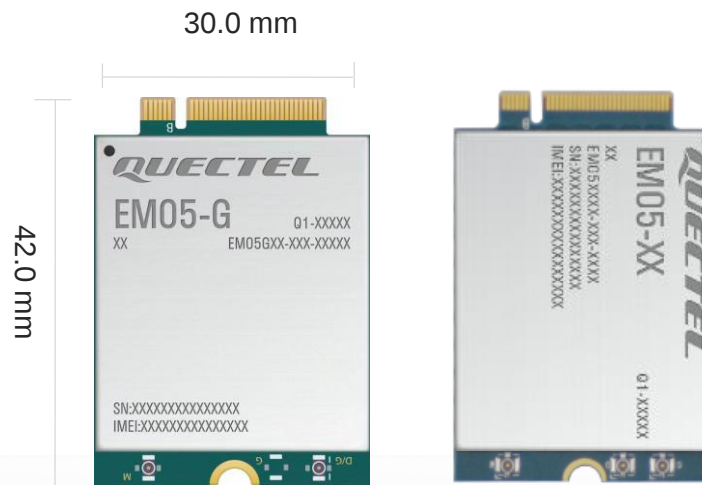
Variant		EG91-NA	EG91-NAX	EG91-NAXD (Data-only)	EG91-VX	EG91-AUX	EG91-E	EG91-EX	EG91-JP
Region		North America	North America	North America	North America	Latin America/ Australia/ New Zealand	EMEA	EMEA	Japan
Chipset		MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07
LTE	FDD Band	B2/ 4/ 5/ 12/ 13	B2/ 4/ 5/ 12/ 13/ 25/ 26	B2/ 4/ 5/ 12/ 13/ 25/ 26	B4/ 13	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66	B1/ 3/ 7/ 8/ 20/ 28A	B1/ 3/ 7/ 8/ 20/ 28	B1/ 3/ 8/ 18/ 19/ 26
	TDD Band	-	-	-	-	-	-	-	-
UMTS	WCDMA Band	B2/ 4/ 5	B2/ 4/ 5	B2/ 4/ 5	-	B1/ 2/ 5/ 8	B1/ 8	B1/ 8	-
	TD-SCDMA Band	-	-	-	-	-	-	-	-
EVDO/ CDMA		-	-	-	-	-	-	-	-
GSM		-	-	-	-	Quad-band	900/ 1800 MHz	900/ 1800 MHz	-
Embedded GNSS		Optional	Optional	Optional	Optional	Optional	-	Optional	Optional
Wi-Fi/ Bluetooth Interface		-	-	-	-	-	-	-	-
Ethernet Interface		-	-	-	-	-	-	-	-
DFOTA		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Open Solution		QuecOpen®	-	-	-	-	QuecOpen®	-	-
Certification	Carrier	Verizon/ AT&T/ T-Mobile/ U.S. Cellular/ Rogers/ Telus	Verizon/ AT&T/ Sprint/ Telus/ Rogers	Verizon/ AT&T/ T-Mobile/ Sprint/ Rogers/ Telus/ U.S. Cellular	Verizon	Telstra ^①	Deutsche Telekom	Deutsche Telekom/ Telstra	NTT DOCOMO/ KDDI
	Regulatory	GCF/ PTCRB/ FCC/ IC	GCF/ PTCRB/ FCC/ IC	GCF/ PTCRB/ FCC/ IC	GCF/ FCC	CE/ FCC/ Anatel/ RCM/ PTCRB	GCF/ CE/ UKCA/ RCM/ Anatel	GCF/ CE/ UKCA/ NCC/ RCM	JATE/ TELEC
	Others	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL
Project Stage		MP	MP	MP	MP	MP	MP	MP	MP

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EM05 Series Highlights



Network technologies:
LTE and UMTS/HSPA+.



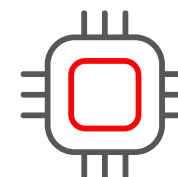
Classic Form Factor: 30.0 × 42.0 × 2.3 mm



Specifically designed
for applications such
as laptops, tablets,
and IoT gateways.



Various functions such as DFOTA
and DTMF.



Mature platform:
Qualcomm **MDM9x07** based.

EM05 Series Specifications

30.0 mm × 42.0 mm × 2.3 mm
150 Mbps DL/ 50 Mbps UL

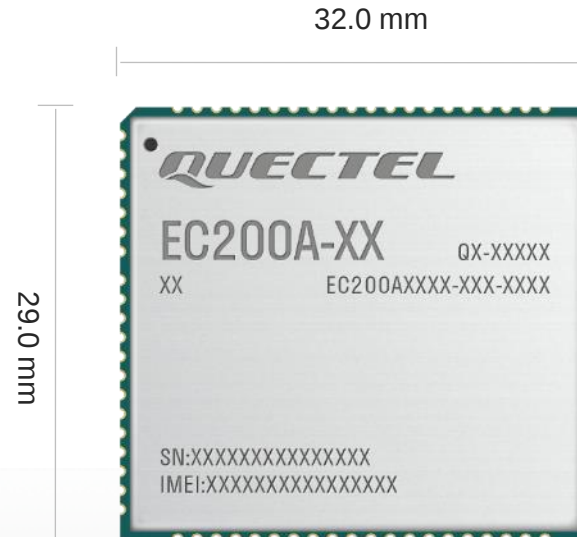


Variant		EM05-CN	EM05-E	EM05-G
Region		China/ Thailand/ India	Europe/ Australia/ New Zealand	Global
Chipset		MDM9x07	MDM9x07	MDM9x07
LTE	FDD Band	B1/ 3/ 5/ 8	B1/ 3/ 7/ 8/ 20/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 14/ 18/ 19/ 20/ 25/ 26/ 28/ 66/ 71
	TDD Band	B34/ 38/ 39/ 40/ 41	B38/ 41	B38/ 39/ 40/ 41
UMTS	WCDMA Band	B1/ 5 / 8	B1/ 8	B1/ 2/ 4/ 5/ 6/ 8/ 19
	TD-SCDMA Band	-	-	-
EVDO/ CDMA		BC0	-	-
Embedded GNSS		Optional	Optional	Optional
Wi-Fi/ Bluetooth Interface		-	-	-
Ethernet Interface		-	-	-
DFOTA		Supported	Supported	Supported
Open Solution		-	-	-
Certification	Carrier	China Telecom/ China Mobile/ China Unicom	-	Verizon/ AT&T/ T-Mobile/ Vodafone/ EE/ Swisscom/ NTT DOCOMO/ KDDI/ China Telecom/ China Mobile/ China Unicom/ SoftBank/ Telstra ^①
	Regulatory	SRRC/ NAL/ CCC	CE/ RCM/ NCC/ ICASA	SRRC/ NAL/ CCC/ GCF/ CE/ PTCRB/ FCC/ IC/ Anatel/ KC/ NCC/ JATE/ TELEC/ RCM
Project Stage		MP	MP	MP

EC200A Series Highlights



Multiple variants covering EMEA, APAC, Latin America, and China.

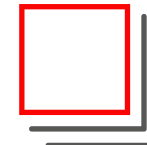


Cost-optimized Cat 4 module.

Classic Form Factor: 29.0 × 32.0 × 2.4 mm



Chipset platform: **ASR1803**.
Mass production and excellent performance.



Compatible with EC2x series.

EC200A Series Specifications

29.0 mm × 32.0 mm × 2.4 mm
150 Mbps DL/ 50 Mbps UL

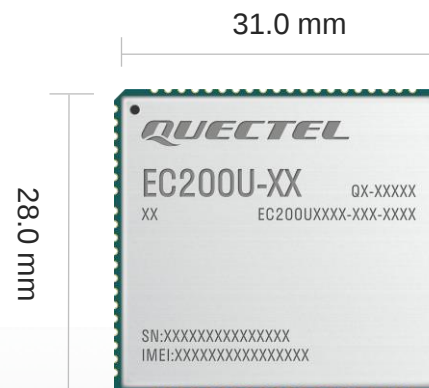


Variant		EC200A-CN	EC200A-EU	EC200A-AU
Region		China/ India	EMEA/ Southeast Asia	Latin America/ Australia/ New Zealand
Chipset		ASR1803	ASR1803	ASR1803
LTE	FDD Band	B1/ 3/ 5/ 8	B1/ 3/ 5/ 7/ 8/ 20/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
	TDD Band	B34/ 38/ 39/ 40/ 41	B38/ 40/ 41	B40
UMTS	WCDMA Band	B1/ 5/ 8	B1/ 5/ 8	B1/ 2/ 4/ 5/ 8
	TD-SCDMA Band	-	-	-
GSM		900/ 1800 MHz	900/ 1800 MHz	Quad-band
Embedded GNSS		Optional	-	-
Wi-Fi/ Bluetooth Interface		Supported (QuecOpen® Only)	Supported (QuecOpen® Only)	Supported (QuecOpen® Only)
Mini PCIe Form Factor		Supported	Supported	Supported
DFOTA		Supported	Supported	Supported
Open Solution		QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®
Regulatory Certification		SRRC/ NAL/ CCC	CE/ UKCA/ NCC/ RCM/ KC	FCC/ Anatel
Project Stage		MP	MP	MP

EC200U Series Highlights

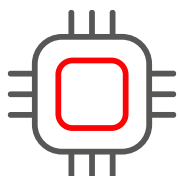


Compatible multiple variants with global market certification.

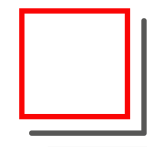


Cost-optimized Cat 1 module.

Classic Form Factor: 28.0 × 31.0 × 2.4 mm



Chipset platform:
UIS8910



Compatible with EC2x series and EG2x-G modules.

EC200U Series Specifications

28.0 mm × 31.0 mm × 2.4 mm
10 Mbps DL/ 5 Mbps UL



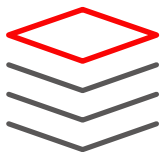
Variant		EC200U-CN	EC200U-EU	EC200U-AU
Region		China/ India	EMEA/ Australia/ New Zealand	Latin America
Chipset		UIS8910	UIS8910	UIS8910
LTE	FDD Band	B1/ 3/ 5/ 8	B1/ 3/ 5/ 7/ 8/ 20/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
	TDD Band	B34/ 38/ 39/ 40/ 41	B38/ 40/ 41	B38/ 40/ 41
UMTS	WCDMA Band	-	-	-
	TD-SCDMA Band	-	-	-
GSM		Optional, 900/ 1800 MHz	Quad-band	Quad-band
Embedded GNSS		Optional	Optional	Optional
Wi-Fi Scan		Optional	Optional	Optional
Bluetooth		Optional	Optional	Optional
Mini PCIe Form Factor		Supported	Supported	Supported
DFOTA		Supported	Supported	Supported
Open Solution		QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®
Certification	Carrier	China Telecom/ China Mobile/ China Unicom	KT	-
	Regulatory	SRRC/ NAL/ CCC	CE/ RCM/ KC	FCC/ Anatel
	Others	WHQL	WHQL	WHQL
Project Stage		MP	MP	MP

[Back](#)

EG915x Series Highlights



Multiple variants, covering EMEA, APAC, Latin America, North America and China.

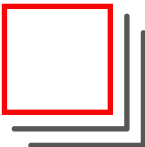


Hardware compatibility with EG9x and BG9x series modules.



Classic Form Factor: 23.6 × 19.9 × 2.4 mm

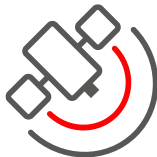
Extremely compact design:
23.6 × 19.9 mm.



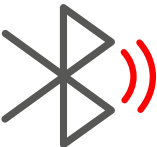
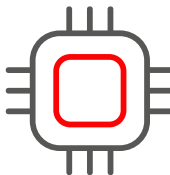
Wi-Fi scan (Optional).



EG915N series: based on **ASR1603**.
GNSS (optional).



EG915Q-NA: based on **QCX216**.
GNSS (optional).



EG915U series: based on **UIS8910**.
Bluetooth 4.2 (optional).

EG915x Series Specifications

23.6 mm × 19.9 mm × 2.4 mm
10 Mbps DL/ 5 Mbps UL



Variant		EG915U-EU	EG915U-LA	EG915U-CN	EG915N-EU	EG915N-LA	EG915N-EA	EG915Q-NA
Region		EMEA/ Brazil/ Australia/ New Zealand	Latin America	China/ India	Europe	Latin America	Europe/ Asia	North America
Chipset		UIS8910	UIS8910	UIS8910	ASR1603	ASR1603	ASR1603	QCX216
LTE	FDD Band	B1/ 3/ 5/ 7/ 8/ 20/ 28	B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66	B1/ 3/ 5/ 8	B1/ 3/ 7/ 8/ 20	B2/ 3/ 4/ 5/ 7/ 8/ 28/ 66	B1/ 3/ 7/ 8/ 20/ 28	B2/ 4/ 5/ 12/ 13/ 66
	TDD Band	-	-	B34/ 38/ 39/ 40/ 41	-	-	-	-
UMTS	WCDMA Band	-	-	-	-	-	-	-
	TD-SCDMA Band	-	-	-	-	-	-	-
EVDO/ CDMA		-	-	-	-	-	-	-
GSM		Quad-band	Quad-band	900/ 1800 MHz	900/ 1800 MHz	Quad-band	900/ 1800 MHz	-
Embedded GNSS		-	-	-	Optional	Optional	Optional	Optional (developing)
Wi-Fi Scan		Optional	Optional	Optional	Supported	Supported	Supported	Supported
Bluetooth		Optional	Optional	Optional	-	-	-	-
DFOTA		Supported	Supported	Supported	Supported	Supported	Supported	Supported
Open Solution		QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	-	QuecOpen®	-	-
Certification	Carrier	Deutsche Telekom/ KT*	-	-	-	-	-	Verizon*/ AT&T*/ T-Mobile*/ Telus ^①
	Regulatory	GCF/ CE/ RCM/ Anatel/ UKCA/ KC	FCC/ Anatel	SRRC/ NAL/ CCC	CE/ UKCA/ RCM	FCC/ Anatel	CE/ RCM	FCC/ IC/ GCF/ PTCRB
	Others	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL
Project Stage		MP	MP	MP	MP	CS	CS	CS

* : In progress.

① : For EG915Q-NA (without GNSS), Telus certificate is in progress; For EG915Q-NA (with GNSS), Telus certificate is to be determined.

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EG915U-EU Timeline



2023						2024								
Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.

Project Stage

EG915U-EU MP

Certification



EG915N-LA Timeline



2022						2023	2024											
Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	...	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.

Project Schedule



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.

Certification

Regulatory	FCC/ Anatel	-----	Completed
Others	WHQL	-----	Completed

EG915N-EA Timeline



2022			2023	2024											
Oct.	Nov.	Dec.	...	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.

Project Schedule



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.

Certification

Regulatory	CE/ RCM	Completed
Others	WHQL	Completed

EG915Q-NA (without GNSS) Timeline



2023												2024		
Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.

Project Schedule



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.

Certification



EG915Q-NA (with GNSS) Timeline



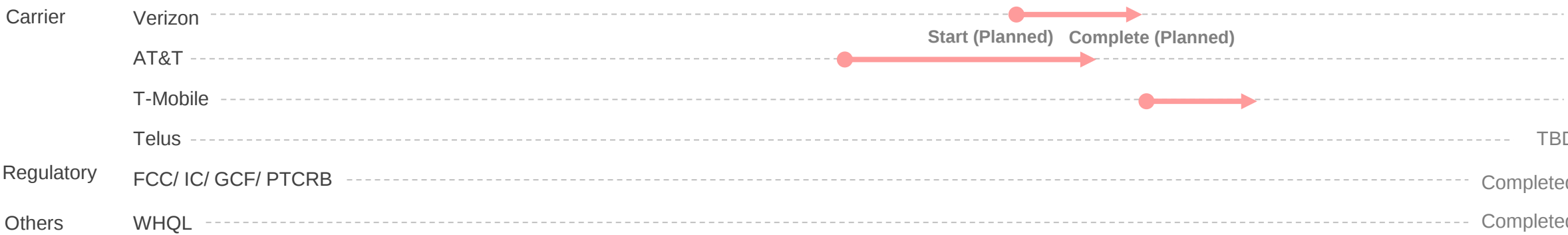
2023									2024					
Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.

Project Schedule



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.

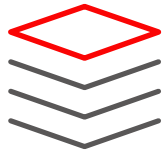
Certification



EG916Q-GL Highlights



Covered regions include EMEA, APAC, Latin America, North America and China.

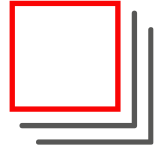


Hardware compatibility with EG9x and BG9x series modules.



Classic Form Factor: 26.5 × 22.5 × 2.4 mm

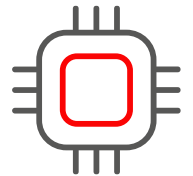
Compact design:
26.5 × 22.5 mm



Wi-Fi Scan.
GNSS (Optional).



Chipset platform: **QCX216**.



EG916Q-GL Specifications

26.5 × 22.5 × 2.4 mm
10 Mbps DL/ 5 Mbps UL



Variant		EG916Q-GL
Region		Global
Chipset		QCX216
LTE	FDD Band	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 28/ 66
	TDD Band	B34/ 38/ 39/ 40/ 41
UMTS	WCDMA Band	-
	TD-SCDMA Band	-
EVDO/ CDMA		-
GSM		-
Embedded GNSS *		Optional
Wi-Fi Scan		Supported
Bluetooth		-
DFOTA		Supported
Open Solution		-
Certification	Carrier	Verizon*/ AT&T*/ T-Mobile*
	Regulatory	SRRC*/ NAL*/ CCC*/ GCF*/ PTCRB*/ CE*/ FCC*/ IC*/ Anatel*/ KC*/ RCM*/ ICASA ^①
	Others	WHQL
Project Stage		CS

* : Under development/ In progress.

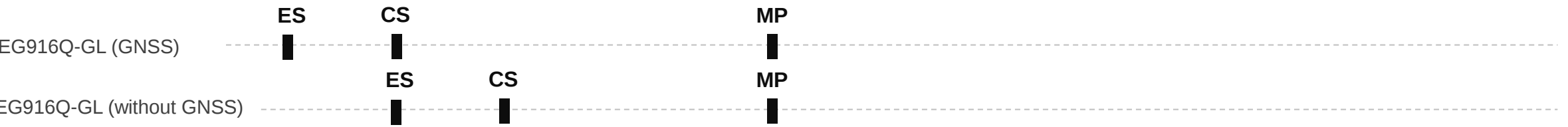
①: To be determined.

EG916Q-GL Timeline



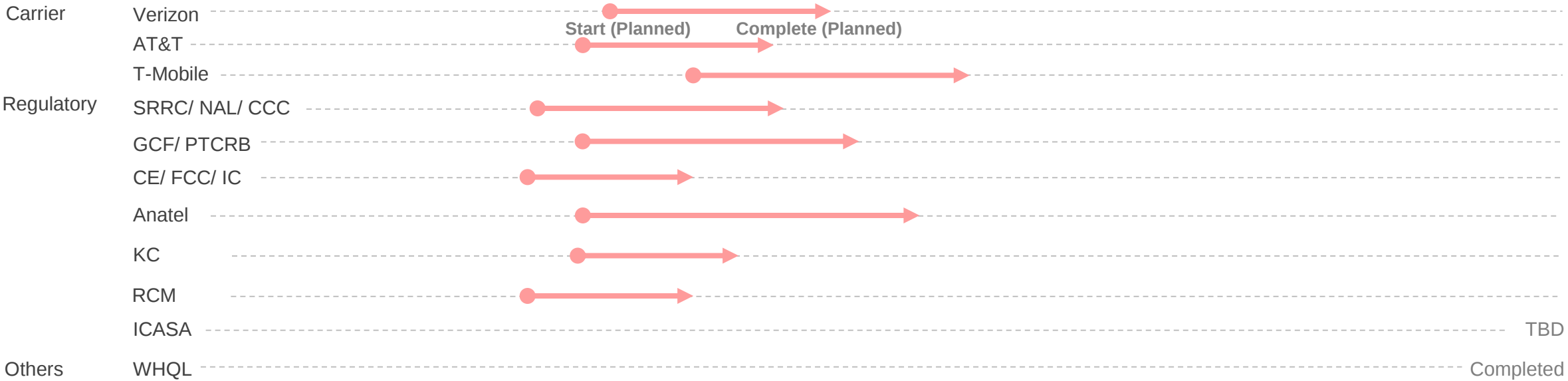
2023						2024											
Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.

Project Schedule

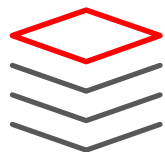


ES: Engineering samples ready. Basic functions are available for customers’ simple demo purpose.
CS: Commercial samples ready. Stable hardware design and quite stable software design. New software features can be added upon request.
MP: Hardware and software ready for mass production.

Certification



EG950A Series Highlights

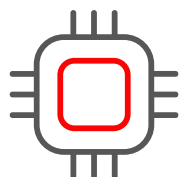


Compatible with EG91 series and EG95 series modules.

Cost-optimized Cat 4 module.

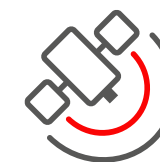


Classic Form Factor: 29.0 × 25.0 × 2.4 mm



Chipset platform:
ASR1803S

EG950A-EL: Embedded GNSS.



EG950A Series Specifications

29.0 × 25.0 × 2.4 mm
150 Mbps DL/ 50 Mbps UL



Variant		EG950A-EL	EG950A-LA
Region		Europe/ APAC	Latin America/ Australia/ New Zealand
Chipset		ASR1803S	ASR1803S
LTE	FDD Band	B1/ 3/ 5 /7/ 8/ 20/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
	TDD Band	-	-
UMTS	WCDMA Band	B1/ 5/ 8	B1/ 2/ 4/ 5/ 8
	TD-SCDMA Band	-	-
GSM		-	-
Embedded GNSS		Optional	-
Wi-Fi Scan		-	-
Mini PCIe Form Factor		-	-
DFOTA		Supported	Supported
Open Solution		-	-
Power Supply		3.4–4.5 V, Typ. 3.8 V	3.4–4.5 V, Typ. 3.8 V
Certification		Regulatory: CE/ RCM/ UCKA	Regulatory: FCC/ Anatel*
Project Stage		CS	CS

EG950A-EL Timeline



2023												2024		
Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.

Project Schedule



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.

Certification



EG950A-LA Timeline



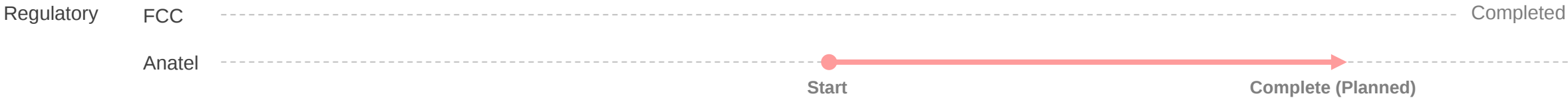
2023												2024		
Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.

Project Schedule



ES: Engineering samples ready. Basic functions are available for customers’ simple demo purposes.
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.

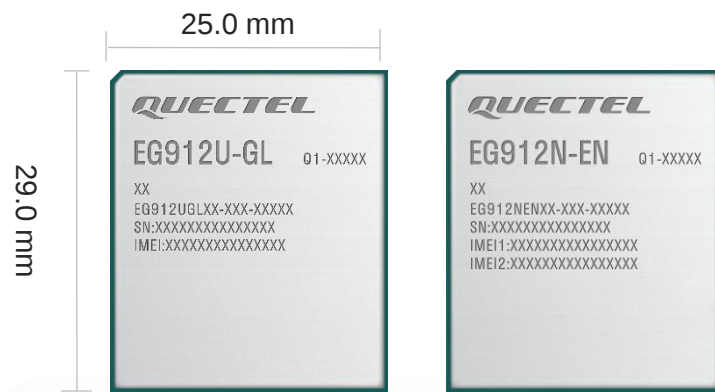
Certification



EG912N-EN/ EG912U-GL Highlights



Global SKU with worldwide certification, covering multiple regions.

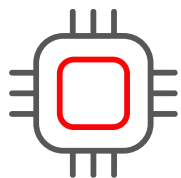


Classic Form Factor: 29.0 × 25.0 × 2.4 mm

Multi functions, such as Wi-Fi Scan, VoLTE and DFOTA.



EG912N-EN:
LTE450 Cat 1 module.



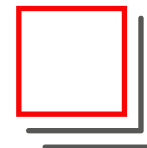
Chipset platforms:

ASR1603 (EG912N-EN)

UIS8910 (EG912U-GL)

Mass production and excellent performance.

Compatible with BG95 series,
BG96, EG915U series and
EG9x series.



EG912N-EN/ EG912U-GL Specifications

29.0 mm × 25.0 mm × 2.4 mm
10 Mbps DL/ 5 Mbps UL

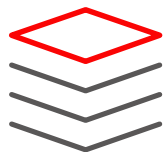


Variant		EG912N-EN	EG912U-GL
Region		Europe	Global
Chipset		ASR1603 LTE 450 MHz	UIS8910
LTE	FDD Band	B1/ 3/ 5/ 7/ 8/ 20/ 28/ 31/ 72	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 12/ 13/ 17/ 18/ 19/ 20/ 25/ 26/ 28/ 66
	TDD Band	-	B34/ 38/ 39/ 40/ 41
UMTS	WCDMA Band	-	-
	TD-SCDMA Band	-	-
EVDO/ CDMA		-	-
GSM		900/ 1800 MHz	Quad-band
GNSS		-	Optional
Wi-Fi Scan		Supported	Optional
Bluetooth		-	Optional
DFOTA		Supported	Supported
Open Solution		QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®
Certification	Carrier	-	-
	Regulatory	CE	CE/ FCC/ SRRC/ NAL/ CCC/ NCC/ RCM/ Anatel/ KC/ PTCRB
	Others	WHQL	WHQL
Project Stage		MP	MP

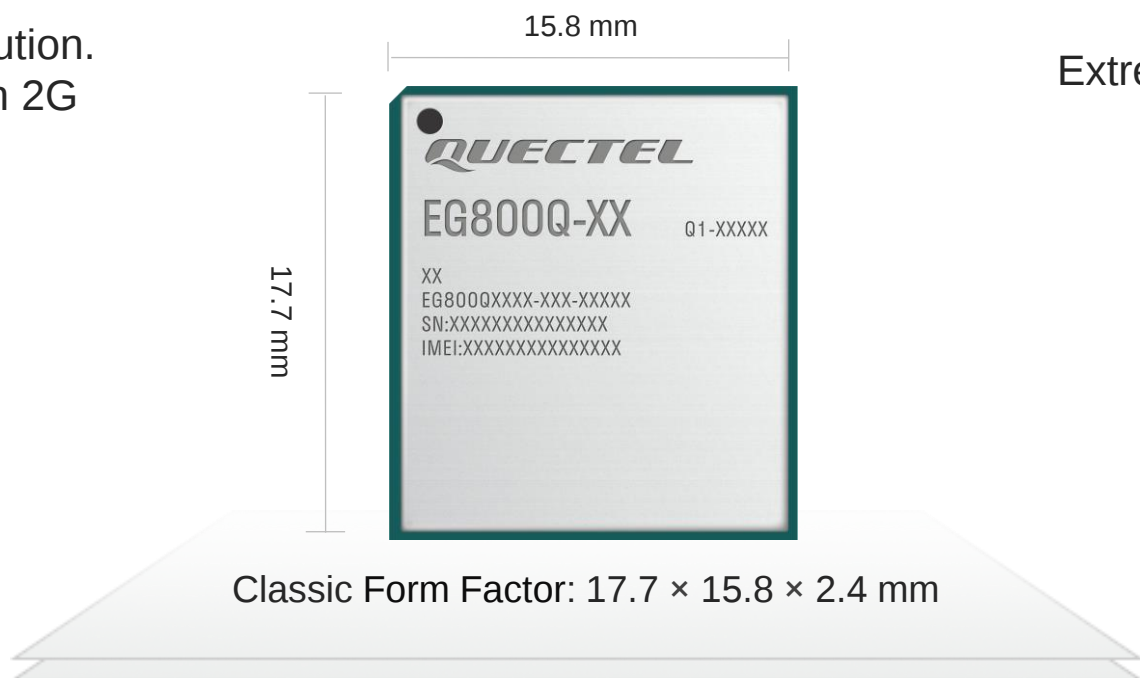
EG800Q Series Highlights



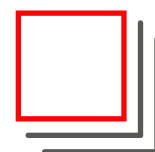
2G replacement solution.
Size compatible with 2G products.



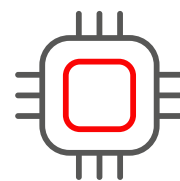
Compatible with
various variants.



Extremely compact design:
17.7 × 15.8 mm.



Wi-Fi Scan.



Chipset platform: QCX216.

EG800Q Series Specifications

17.7 × 15.8 × 2.4 mm
10 Mbps DL/ 5 Mbps UL



Variant		EG800Q-EU	EG800Q-NA
Region		Europe	North America
Chipset		QCX216	QCX216
LTE	FDD Band	B1/ 3/ 5 /7/ 8/ 20/ 28	B2/ 4/ 5/ 12/ 13/ 66
	TDD Band	-	-
UMTS	WCDMA Band	-	-
	TD-SCDMA Band	-	-
GSM		-	-
Embedded GNSS		-	-
Wi-Fi Scan		Supported	Supported
Bluetooth		-	-
DFOTA		Supported	Supported
Open Solution		-	-
Certification	Carrier	Deutsche Telekom	Verizon ^① / AT&T ^① / T-Mobile ^①
	Regulatory	CE/ UKCA/ RCM	FCC/ IC/ GCF*/ PTCRB*
	Others	WHQL	WHQL
Project Stage		MP	MP (without carrier certificates)

* : In progress.

①: Verizon/ AT&T/ T-Mobile certificates are to be determined and can be started upon request.

EG800Q-NA Timeline



2023									2024		
Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.

Project Stage

EG800Q-NA MP ①

Certification

Carrier	Verizon/ AT&T/ T-Mobile	TBD
Regulatory	FCC/ IC	Completed
	GCF/ PTCRB	
Others	WHQL	Completed

Start

Complete (Planned)

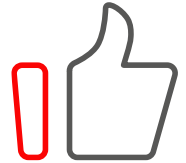
UC200A-GL Highlights



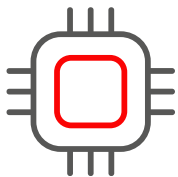
Worldwide coverage.



Cost-optimized solution
for industrial applications.

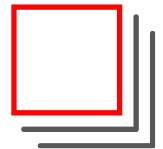


Classic Form Factor: 29.0 × 32.0 × 2.4 mm



Chipset platform:
ASR1803.

Compatible with EC2x
series, EG2x-G and
EC200x series.



UC200A-GL Specifications

Variant		UC200A-GL
Region		Global
Chipset		ASR1803
UMTS	WCDMA Band	B1/ 2/ 5/ 8
	TD-SCDMA Band	-
GSM		Quad-band
Power Supply		3.4–4.5 V, typ. 3.8 V
Interface		(U)SIM/ UART/ USB/ Audio Digital (PCM)/ I2C/ ADC/ Antenna
Protocol		TCP/ UDP/ PPP/ NTP/ NITZ/ FTP/ HTTP/ PING/ CMUX/ HTTPS/ FTPS/ SSL/ FILE/ MQTT/ MMS/ SMTP/ SMTPS/ CSD*
Feature		DFOTA/ QuecLocator®/ (U)SIM Card Detection/ RIL Driver/ USB RNDIS Driver/ USB Serial Driver/ USB ECM Driver
Regulatory Certification		CE/ FCC/ Anatel/ RCM/ NBTC
Project Stage		MP



Product Portfolio

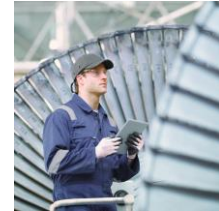
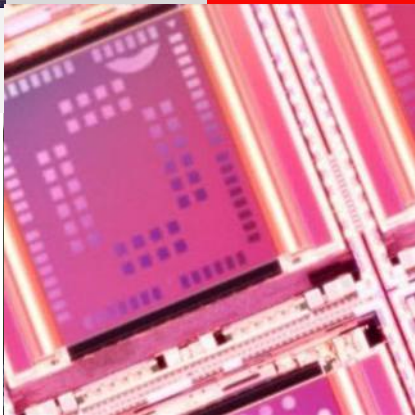
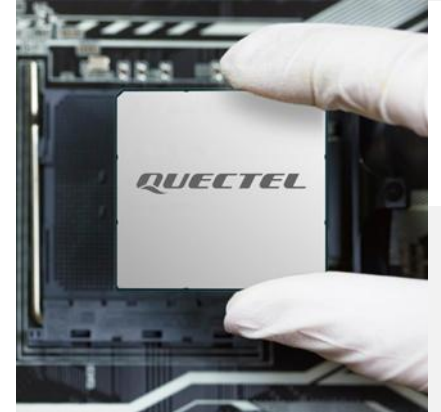
Specifications & Timelines

Product Advantages

Typical Applications

Customer Support

Build a Smarter World



GNSS Global Positioning Solution

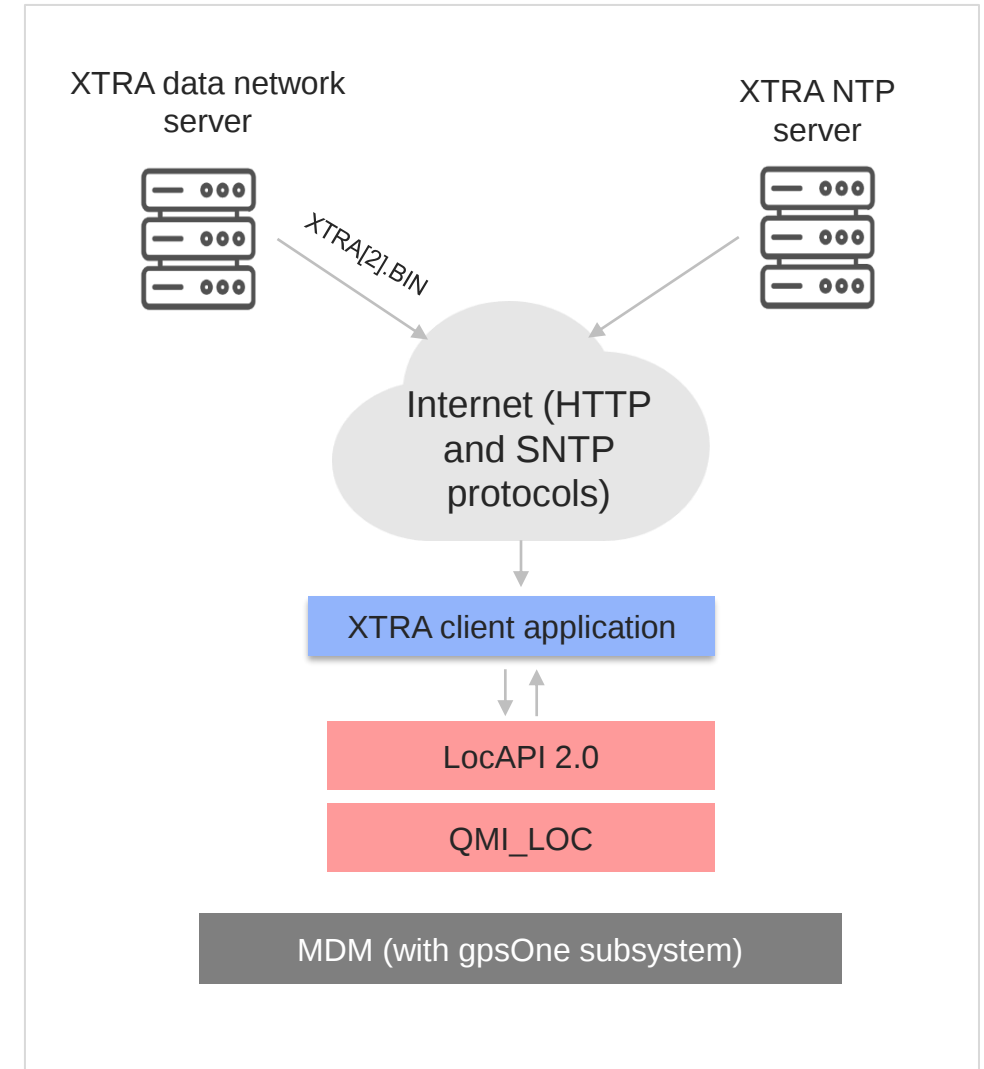
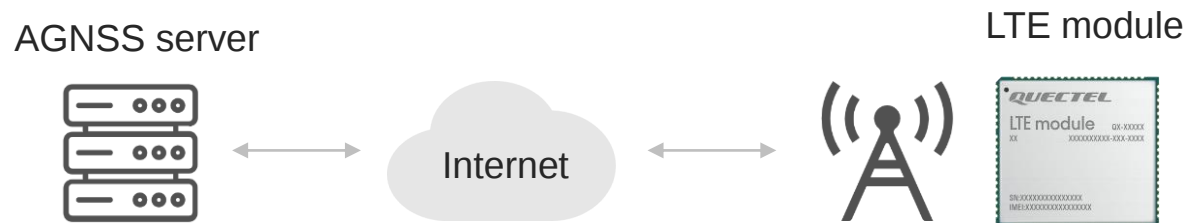
Supported constellations: GPS/ GLONASS/ BDS/ Galileo/ QZSS.

gpsOneXTRA Assistance Technology

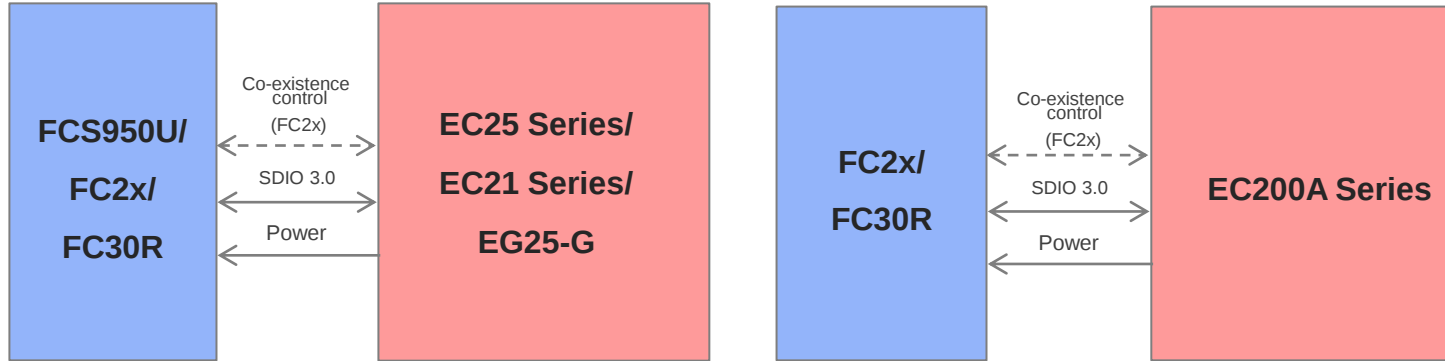
Qualcomm's new gpsOneXTRA Assistance technology delivers more accurate positioning with greater sensitivity than standalone GPS receivers, especially in challenging environments such as indoor areas and dense urban canyons.

AGNSS Assistance Technology

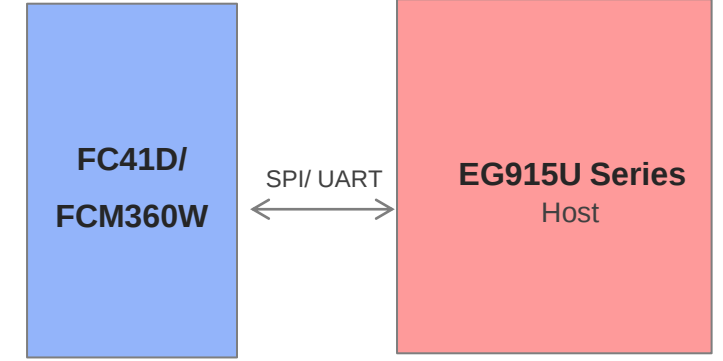
The offline assisted positioning function can greatly reduce positioning time by downloading the predicted GNSS satellite trajectory data.



LTE + Wi-Fi Solution



- Application: IoV, OBD, tracker, etc.
- Soft-AP and STA functions.
- Excellent co-existence mechanism with optimum software and hardware designs.



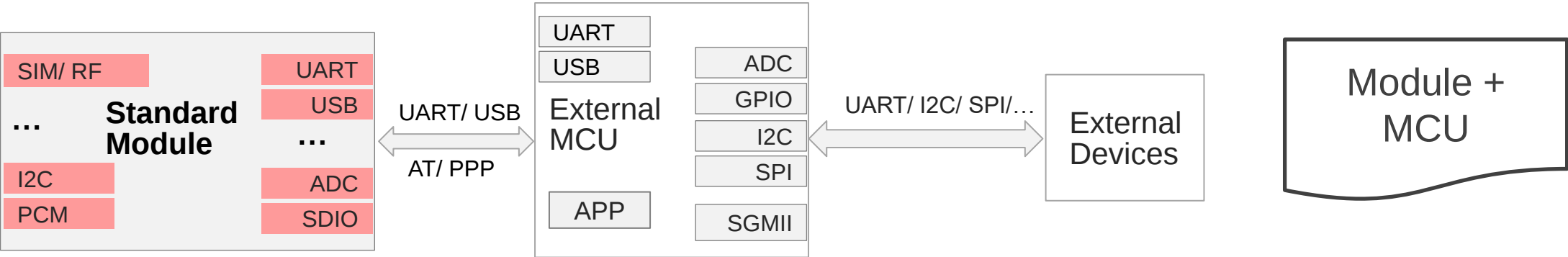
- Application: Payment, interphone, charging pile, and new energy applications including PV.
- Soft-AP and STA functions.

EC200A series module can only be in combination with FC30R in QuecOpen® solution.
FC30R supports only hardware co-existence control. Software co-existence control is not supported.

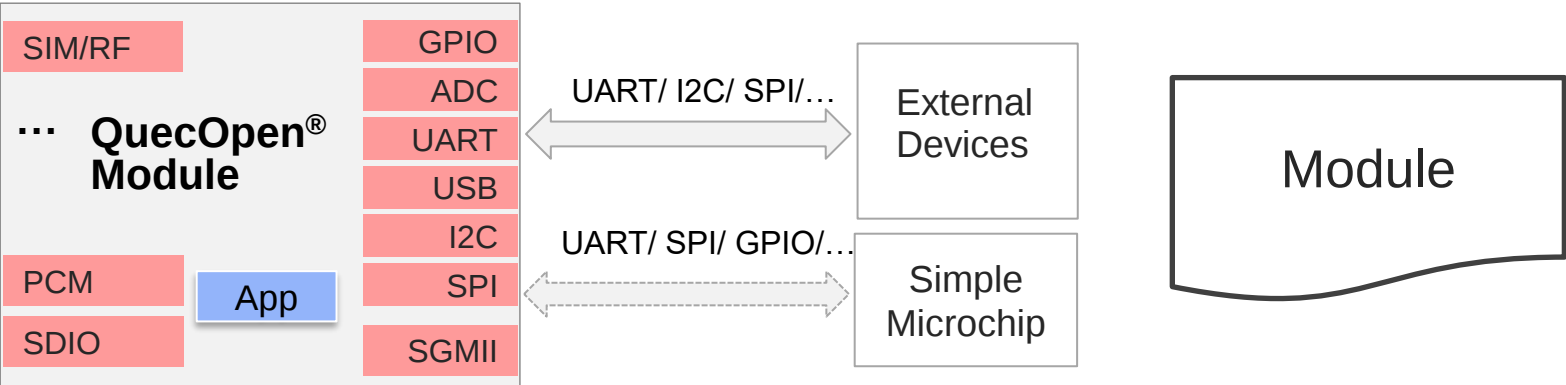
QuecOpen® VS Standard Module Modes



Standard Module Mode



QuecOpen® Module Mode



- Simplify circuit design and reduce product size.
- Rich hardware interfaces, strong performance and easy development.
- Reduce costs by eliminating the need for external MCU.

- Native libraries, third-party libraries and sensors
- Demos and source code solutions
- Smooth IoT programming with online user manuals



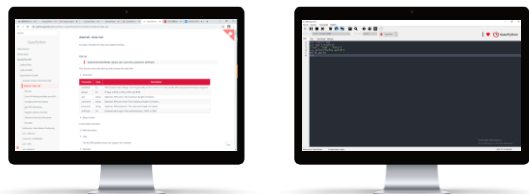
- Hardware level lock
- Software advanced encryption



QuecPython

A new method of IoT programming

- User-friendly
- GUI tool allows for simultaneous testing and programming

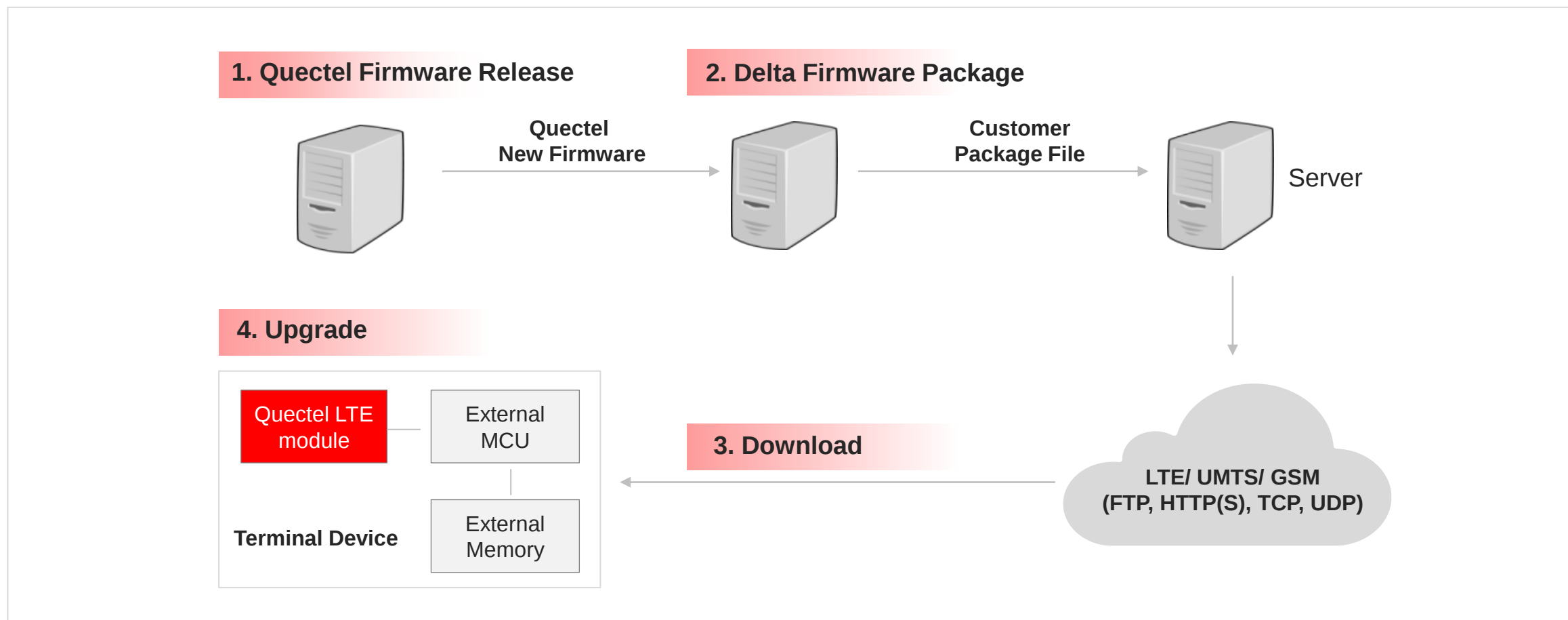


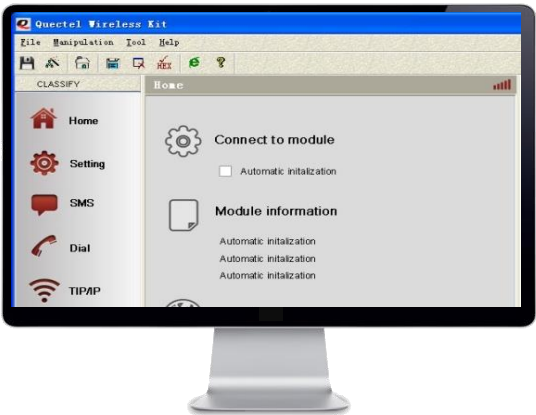
- Bidirectional isolation of client code and hardware environment
- Unified API that can be used for developing applications and subsequently for running scripts freely on any module or platform
- Cost-free code and platform migration for trouble-free hardware selection



DFOTA (Delta Firmware Upgrade Over-The-Air)

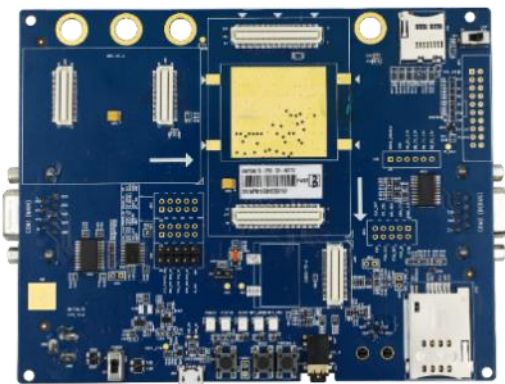
Quick firmware upgrade through cellular networks owing to differential upgrade, delta firmware package, and fast download speed.





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



Product Portfolio

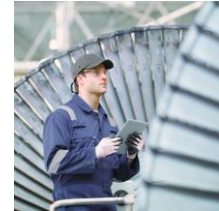
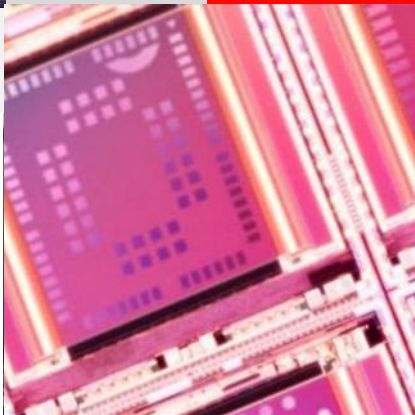
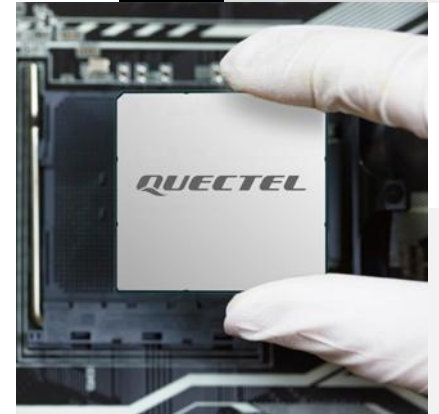
Specifications & Timelines

Product Advantages

Typical Applications

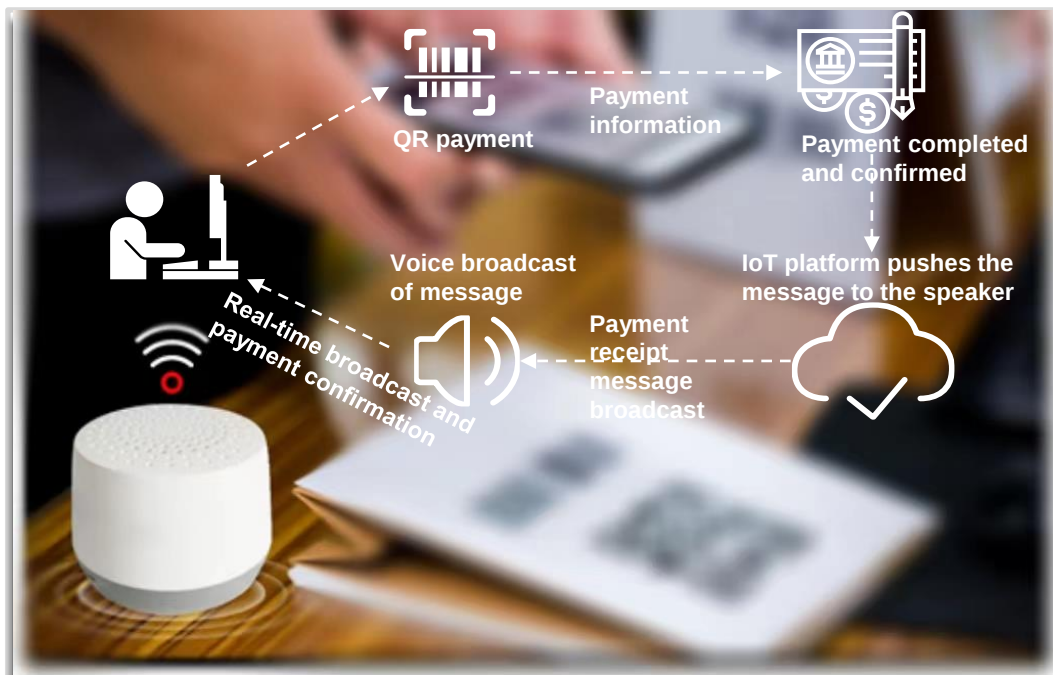
Customer Support

Build a Smarter World



Cloud Speaker

A solution to the problem that QR payment receipt cannot be confirmed in time if the payment App is not running or the broadcast sound is inaudible.



- Chipsets inside modules are imbedded with an audio codec.
- A cropped version is adopted to save more RAM or ROM space.
- Virtual machine architecture and modular programming.



Long-lasting Battery Life

- 24-hour continuous broadcasting
- Low battery voice alert



Multiple IoT platforms

- Quectel IoT platform
- Alibaba cloud
- Tencent cloud



Human-like sound

- TTS, MP3, AMR are supported
- The sound is closer to a real person's voice



Applications

- Payment receipt broadcasting
- Voice broadcasting in station and airport
- Local radio in rural area

Photovoltaic (PV)

Challenges

- Wire Ethernet features higher wiring costs and inflexibility.
- Wi-Fi features a short transmission distance, poor stability and potential network security risk.
- 2G devices cannot connect to network as 2G is phasing out.

Solution



Solution Highlights



4G Cat 1 technology avoids the risks followed by carriers shutting down 2G/ 3G network.



Through the module, the device data are collected and uploaded to the network server, so as to query, manage and maintain data anytime and anywhere.



4G Cat 1 series modules covering multiple chipsets and sizes satisfy the diverse demands of customers to market their terminal products in different areas around the world.



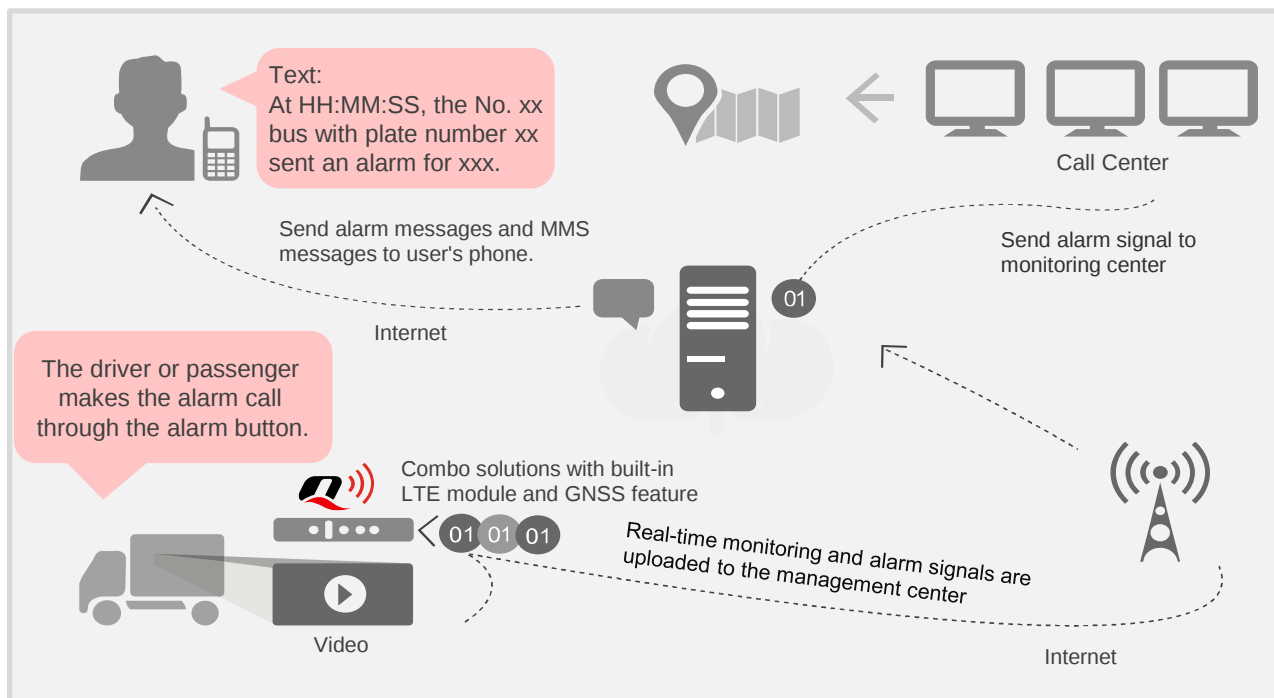
The current 4G network can ensure the stable and long-term network coverage of PV power generation devices.



LTE Cat 1 series modules are integrated with Bluetooth function, which makes it easier to maintain the electricity meter and terminal devices.

Tracker/ Vehicle OBD/ UBI

Vehicle Tracking/ Cargo Tracking/ Ship Tracking/ Fleet Management/ Item Tracking



Real-time tracking: item location and status as well as vehicle operation status

Multiple positioning: GPS/ BDS + LBS, etc.

Tracking query: Query vehicle behavior anytime and anywhere

Electronic fence: Automatic alarm for deviation from preset route

Emergency SOS

Solution Highlights



- Module variants meeting users' requirements for chipset, size, region and band
- Combo solutions that combine LTE, GNSS and other required functions



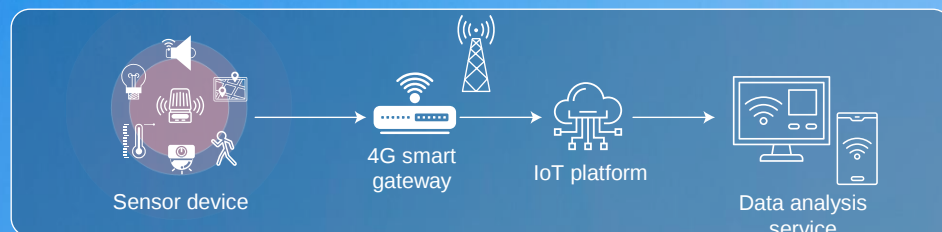
- Open solutions such as Linux, QuecPython® and FreeRTOS
- Complete example code for reference



Additional services including IoT platform and optimal antenna

4G Smart Gateway

Smart gateway allows non-cellular devices to connect to 4G networks.



Wi-Fi gateway to 4G

Allows Wi-Fi devices to connect to networks

USB NIC to 4G

Allows OS such as Windows, Android and Linux to connect to networks

Ethernet to 4G gateway

Allows Ethernet devices to connect to networks

4G Gateway

Allows sensor data to be transmitted to IoT platform

Solution Highlights



Module variants meeting users' requirements for chipset, size, region and band



Rich hardware interfaces such as USB, Wi-Fi and Ethernet



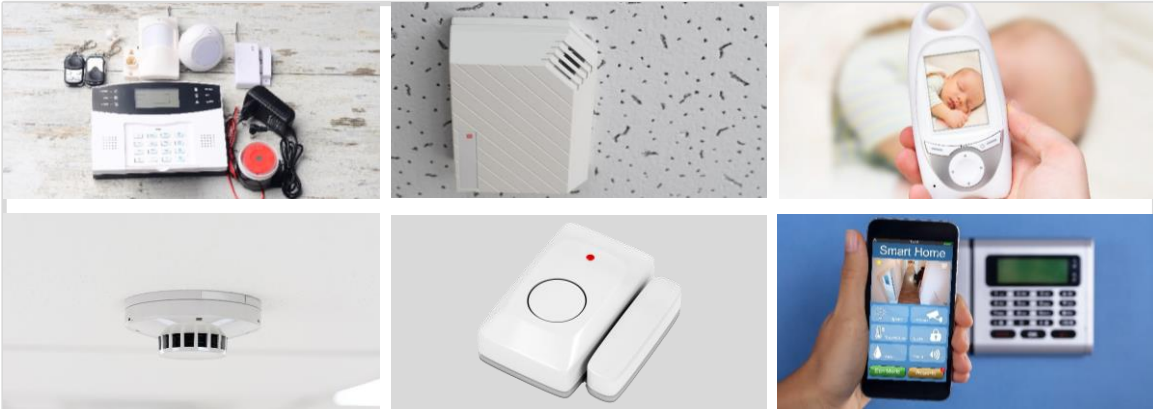
Various Open solutions:

- Linux
- QuecPython®
- FreeRTOS



- Sufficient example codes
- Socket programming supported in upper-layer application
- No need to focus on underlying interfaces
- Web configuration gateway

Various sensor data, collected to IoT gateway and transmitted to IoT platform via cellular network, are analyzed and managed intelligently.



Connect to mobile network with cellular module and provide safe and reliable data connection and transfer.

Home smart safety

Home safety devices which connects to network via a cellular module, together with video recorder, door and window sensors and smog detectors, can realize remote recording and alarm functions. When abnormality is detected, users will be noticed instantly via message, call, or App, which improves home safety.

Commercial smart safety

With video recorder, invasion detectors and fire detectors connected, commercial sites can be safely monitored and guarded to protect commercial assets.

Solution Highlights



- Module variants meeting users' requirements for chipset, size, region and band
- LTE Cat 1 modules supporting PSM

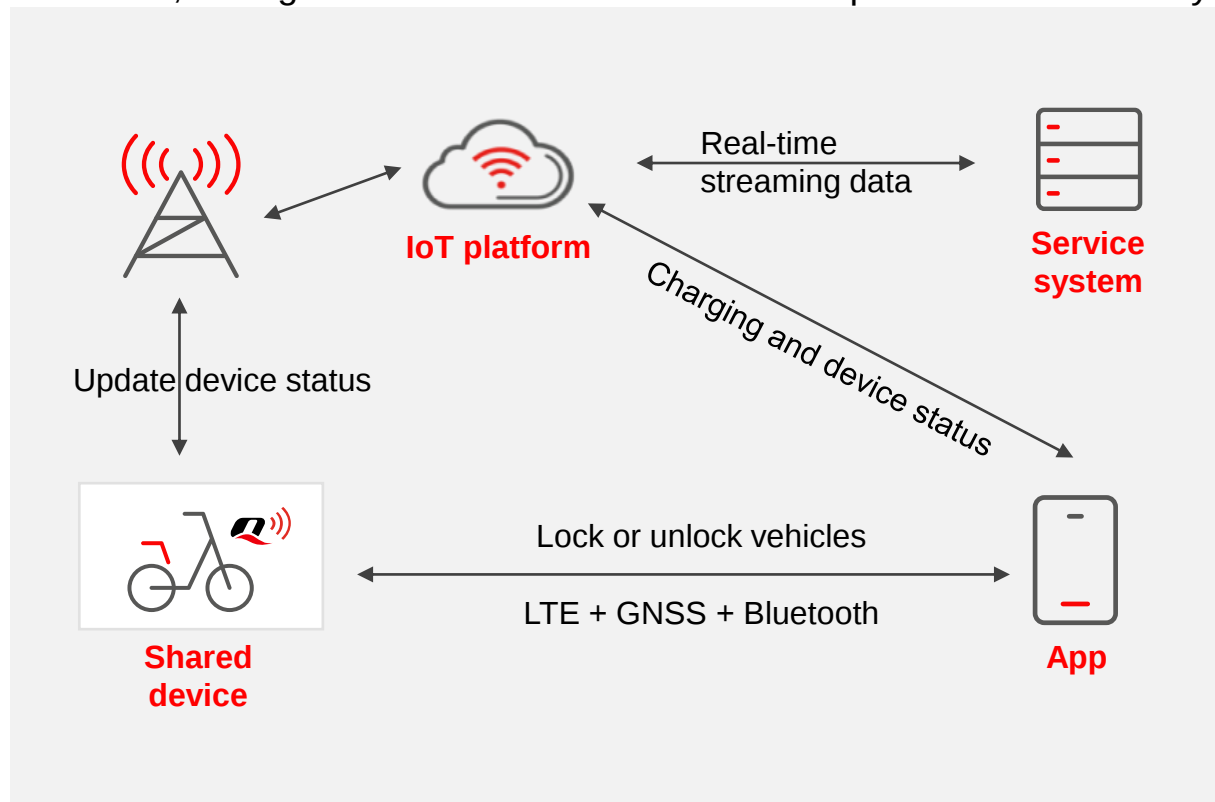


Support for safety functions related to system and software

Sharing

Challenges

- Traditional public bicycles feature: fixed parking sites, high construction cost and low usage rate.
- Electrical, intelligent and shared travel methods improve travel efficiency.



Solution Highlights



- Suitable for shared bicycle, motorbike, scooter and other travel devices.
- GNSS function is applied for recording vehicle usage, and Bluetooth for locking or unlocking vehicles.
- An overall solution is provided.



A low-cost device operating mode that allows human-computer interaction in network transmission.



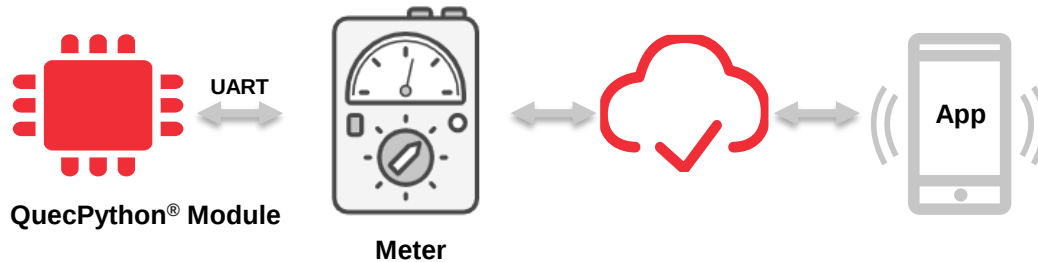
Shared bicycles have become an effective means to alleviate urban traffic congestion and the "last mile" problem.

Challenges

- Traditional mechanical meter features a low measurement accuracy.
- Manual data calculation leads to high management cost.



Solutions



Solution Highlights



- Developed on QuecPython® language
- Rich third-party libraries
- Free from compilation



A set of codes can be widely used in the products based on various chipsets without modification.

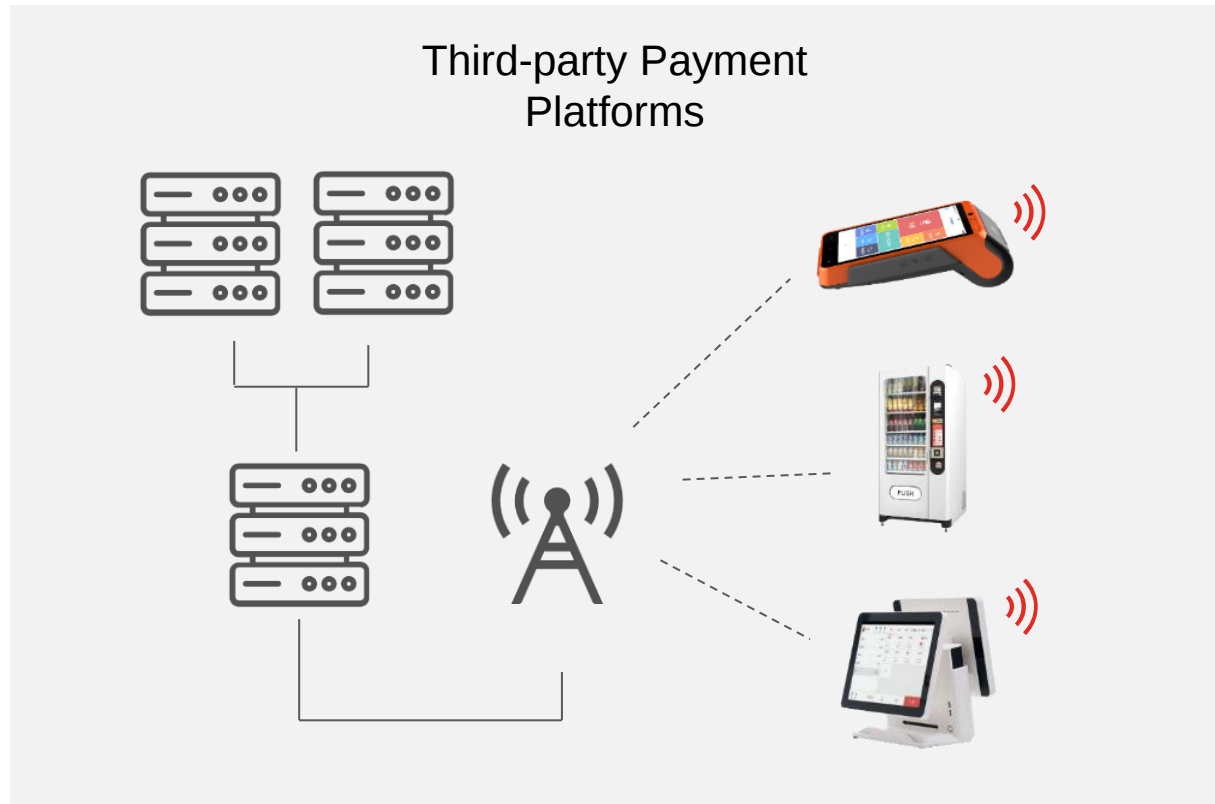


A brand-new meter reading mode

Multiple application scenarios to solve the problems in production and life:

- Smart power consumption
- Distributed energy resources
- Multifunctional community services

- 2G/ 3G phaseout
- Over 100 million 2G/ 3G POS terminals still in use
- Wide use leads to a shorter average replacement time (2–3 years)



Solution Highlights



LTE standard solution can meet the demand of direct replacement of 2G/ 3G products.



LTE modules in Open solutions enhance their competitiveness by supporting code scanning, screen display and application.



Wireless payment has been an essential application of LTE Cat 1 technology which provides wider coverage, higher data rates, and greater cost advantages.



Module Portfolio

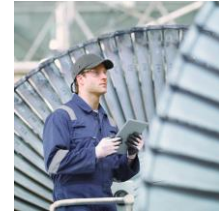
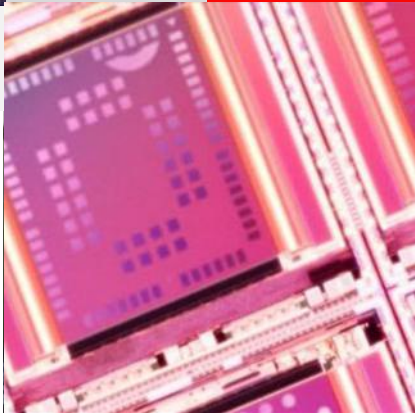
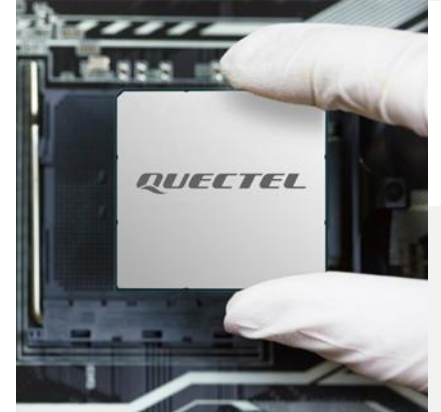
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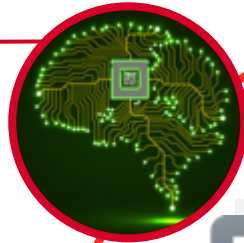


360 Degree Support



1. System Evaluation

- Analyzing customer requirements
- Recommending the right module for the customer
- Evaluating antenna placement
- Designing antennas



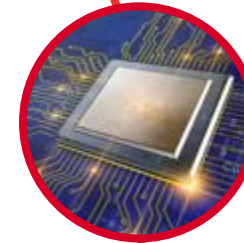
2. Design In

- Recommending referenced hardware designs
- Checking schematics and layouts
- Providing software design support



3. Prototype

- Providing design validation testing
- Recommending suppliers



4. Testing Service

- RF testing
- Power consumption testing
- Audio testing
- Reliability & environmental testing
- ESD testing
- Certification testing
- Antenna debugging



5. Mass Production

- Providing assembly and testing guidelines
- Providing after-sales services





**We are a global IoT solutions provider,
backed by outstanding support and
services, to deliver a smarter world.**

- 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" ensure our customers always come first

Thank You

Build a Smarter World

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