

Quectel
LTE Standard & UMTS Module

Product Overview



Duty of confidentiality

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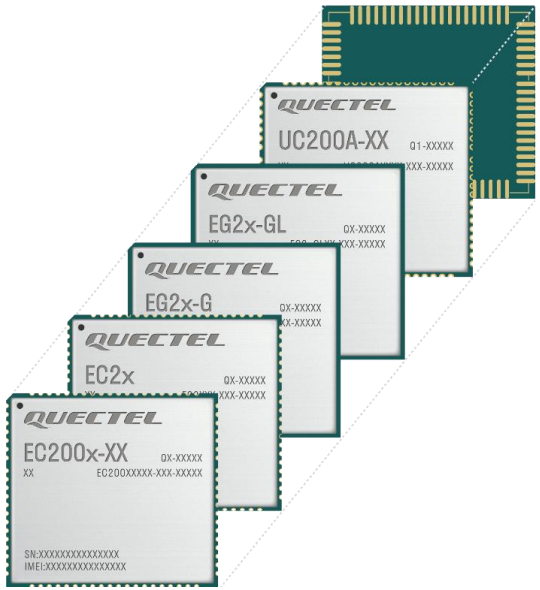
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LTE Standard & UMTS product portfolio

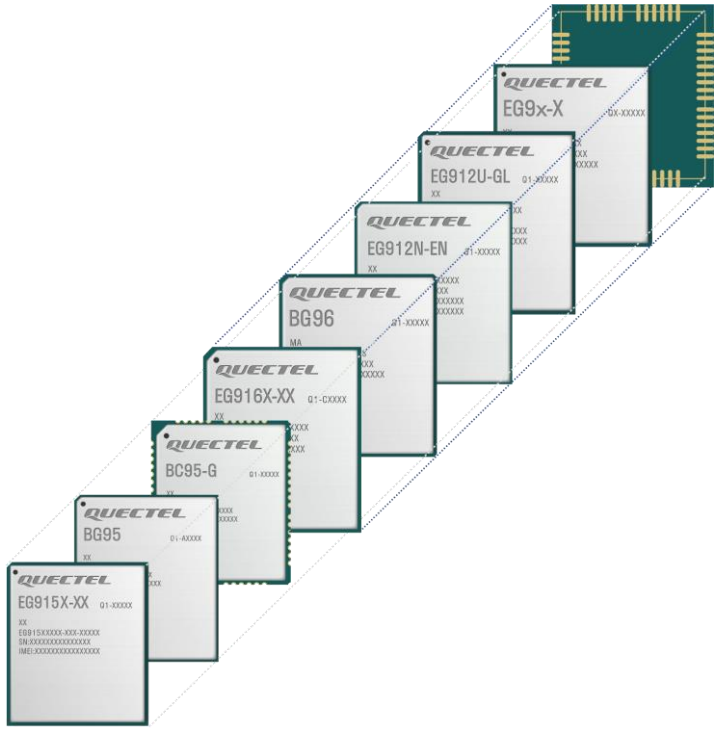
	EC2x/ EC200x/ EG2x/ UC200A series (LCC + LGA)	EG9x/ EG91xx/ EG950A series (LGA)	EG800Q series (LGA)	EM05 series (M.2)
Cat 4	 **EC25 series/ EC20-CE** • MDM9x07 • 4G + 3G + 2G  **EG25-G/ EG25-GL** • MDM9x07 • 4G + 3G + 2G • Global  **EC200A series** • ASR1803 • 4G + 3G + 2G + GNSS	 **EG95 series** • MDM9x07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

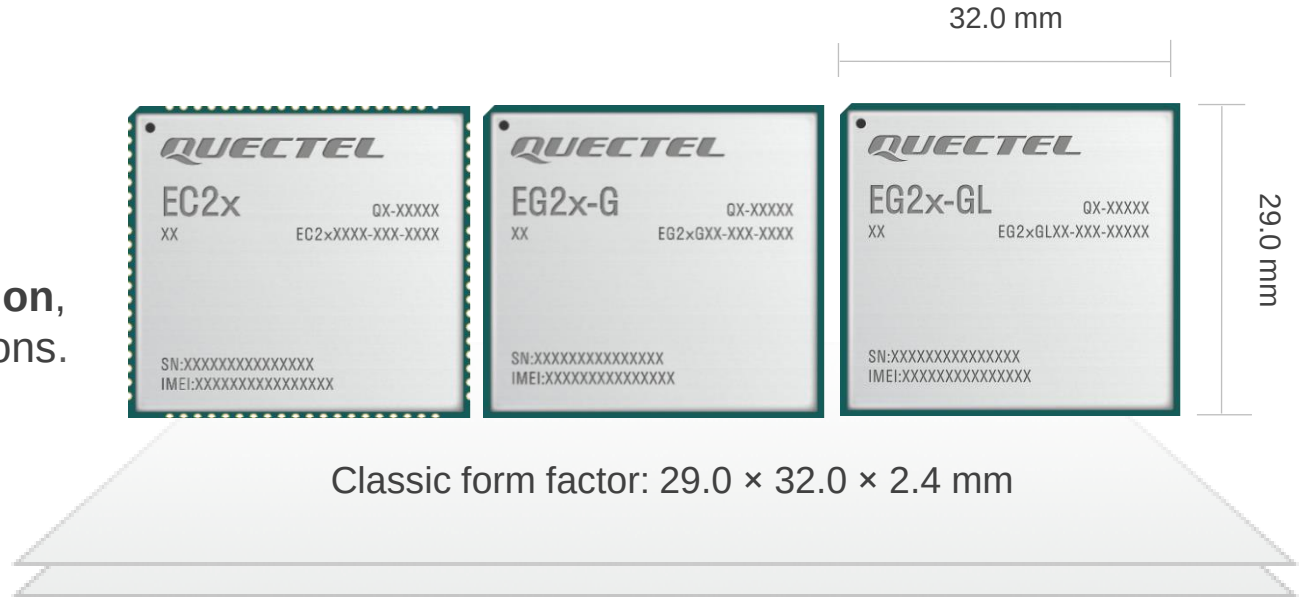
- GSM/ GPRS module **M95**
- LTE Cat NB module **BC95-G**
- LTE Cat M/ Cat NB/ EGPRS module **BG96/ BG95 series**
- LTE Cat 1 **EG915U series/ EG915N series/ EG912N-EN/ EG912U-GL**
- LTE Cat 1 bis **EG915Q series/ EG916Q-GL**

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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.

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/ 2①/ 3/ 4/ 5/ 7/ 8/ 28	B1/ 2①/ 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

①: Rx-diversity is not supported.

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/ Telstra/ Verizon*
	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	MP	MP	MP	MP	MP

* : In progress.

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	EC21-IN	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	India	Global	Global
Chipset		MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07	MDM9x07
LTE	**FDD band**	B2/ 4/ 12	B4/ 13	B1/ 2①/ 3/ 4/ 5/ 7/ 8/ 28	B1/ 2①/ 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/ 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	-	-	B40	B40	-	-	-	-	-	B40/ 41	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	-	-	-	-	-	-	-	-	-	-	-	-
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	Optional
Wi-Fi/ Bluetooth interface		Supported	Supported	Supported	-	Supported	Supported	-	Supported	Supported	Supported	-	-
Ethernet interface		Supported	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	Supported
Open solution		QuecOpen®	QuecOpen®	QuecOpen®	-	QuecOpen®	QuecOpen®	-	QuecOpen®	QuecOpen®	QuecOpen®	-	-
Certification	**Carrier**	AT&T/ T-Mobile/ U.S. Cellular/ Rogers/ Telus	Verizon	Telstra	Telstra②	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/ Telstra/ Verizon*
	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	WHQL
Project stage		MP	MP	MP	MP	MP	MP	MP	MP	MP	ES	MP	MP

①: Rx-diversity is not supported. ②: For Data-only modules. * : In progress.

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 stage

EG25-GL — MP

Certification

Carrier	AT&T/ T-Mobile/ Telstra	Completed
	Verizon	Start → Complete (planned)
Regulatory	SRRC/ NAL/ CCC/ GCF/ PTCRB/ CE/ FCC/ IC/ NCC/ RCM/ JATE/ TELEC/ Anatel/ KC	Completed
Others	WHQL	Completed

EC21-IN timeline

2024												2025					
Jan.	Feb.	Mar.	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.

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 stage

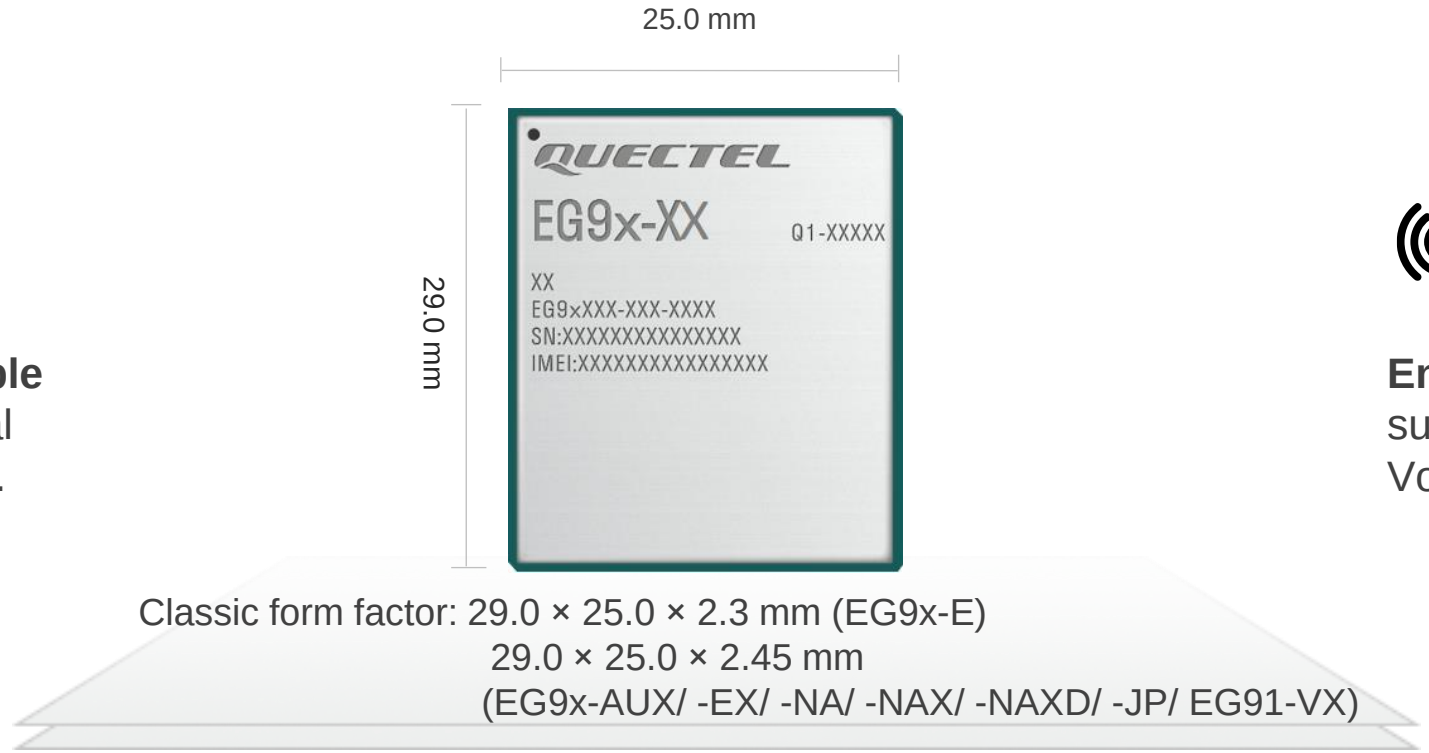
EG21-GL — MP

Certification

Carrier	AT&T/ T-Mobile/ Telstra	Completed
	Verizon	Start → Complete (planned)
Regulatory	CCC/ NAL/ SRRC/ GCF/ PTCRB/ CE/ RCM/ FCC/ IC/ NCC/ JATE/ TELEC/ Anatel/ KC	Completed
Others	WHQL	Completed

EG9x series highlights

Compatible multiple variants with global market certification.



Enhanced features such as DFOTA, GNSS, VoLTE.

Highly reliable bulk shipments: delivery guaranteed.

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	Telstra①	-	TIM	NTT DOCOMO/ KDDI/ SoftBank②
	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

①: For Data-only modules. * : In progress. ②: To be determined.

EG91 series specifications

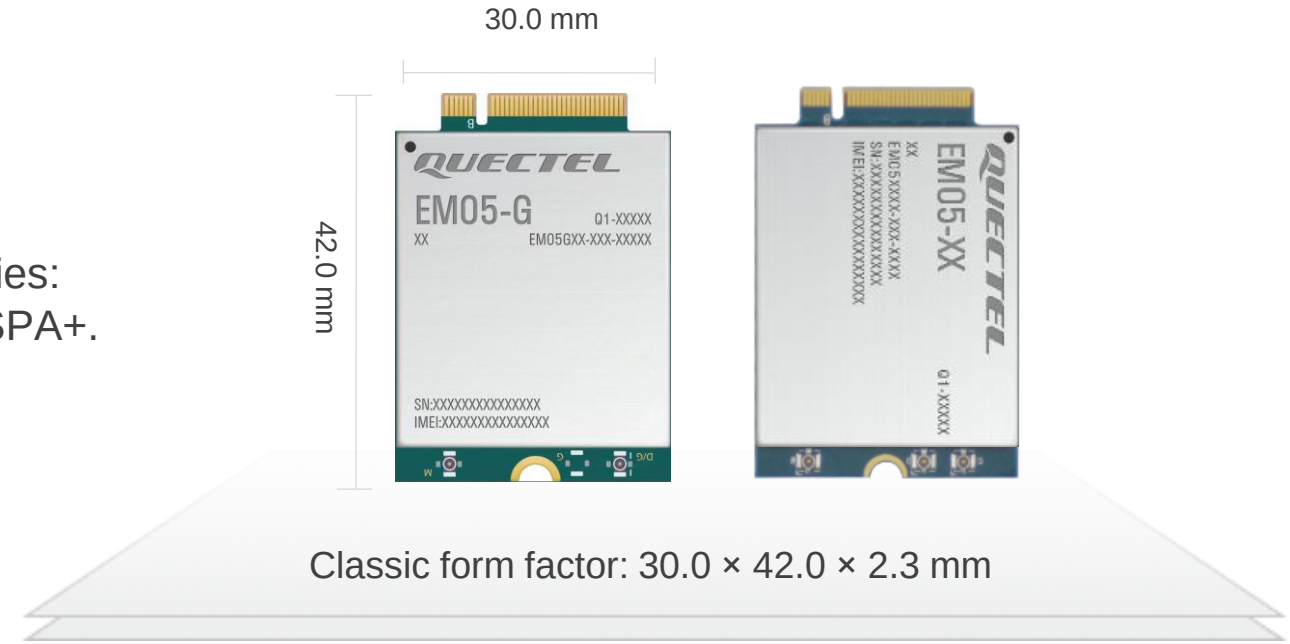
29.0 mm × 25.0 mm × 2.3 mm (EG91-E)
29.0 mm × 25.0 mm × 2.45 mm (EG91-NA/ -NAX/ -NAXD/ -VX/ -AUX/ -EX/ -JP)
10 Mbps DL/ 5 Mbps UL

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	Telstra①	Deutsche Telekom	Deutsche Telekom/ Telstra	NTT DOCOMO/ KDDI/ SoftBank②
	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

①: For Data-only modules. ②: To be determined.

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.

EM05 series specifications

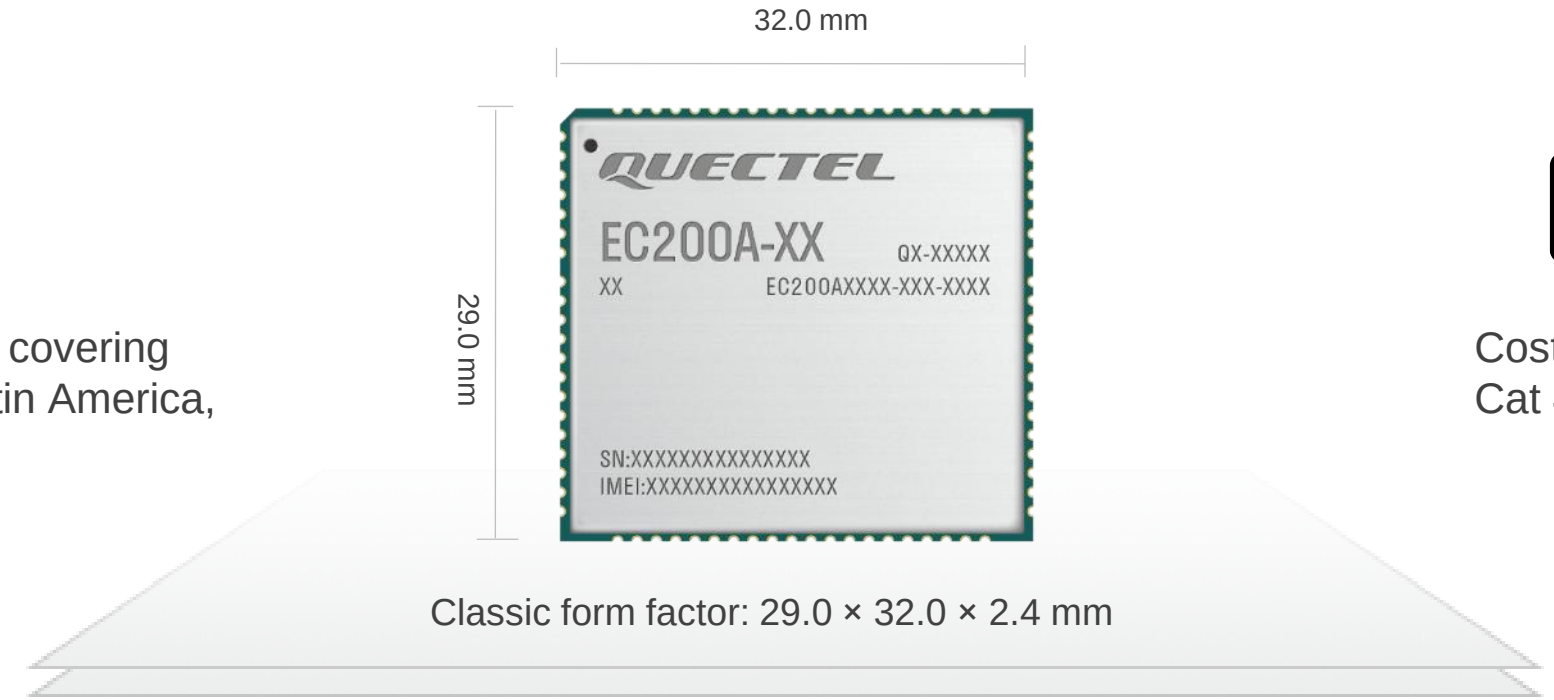
30.0 mm × 42.0 mm × 2.3 mm
150 Mbps DL/ 50 Mbps UL

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
	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

Back

EC200A series highlights

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



Classic form factor: 29.0 × 32.0 × 2.4 mm

Cost-optimized Cat 4 module.

Compatible with EC2x series.

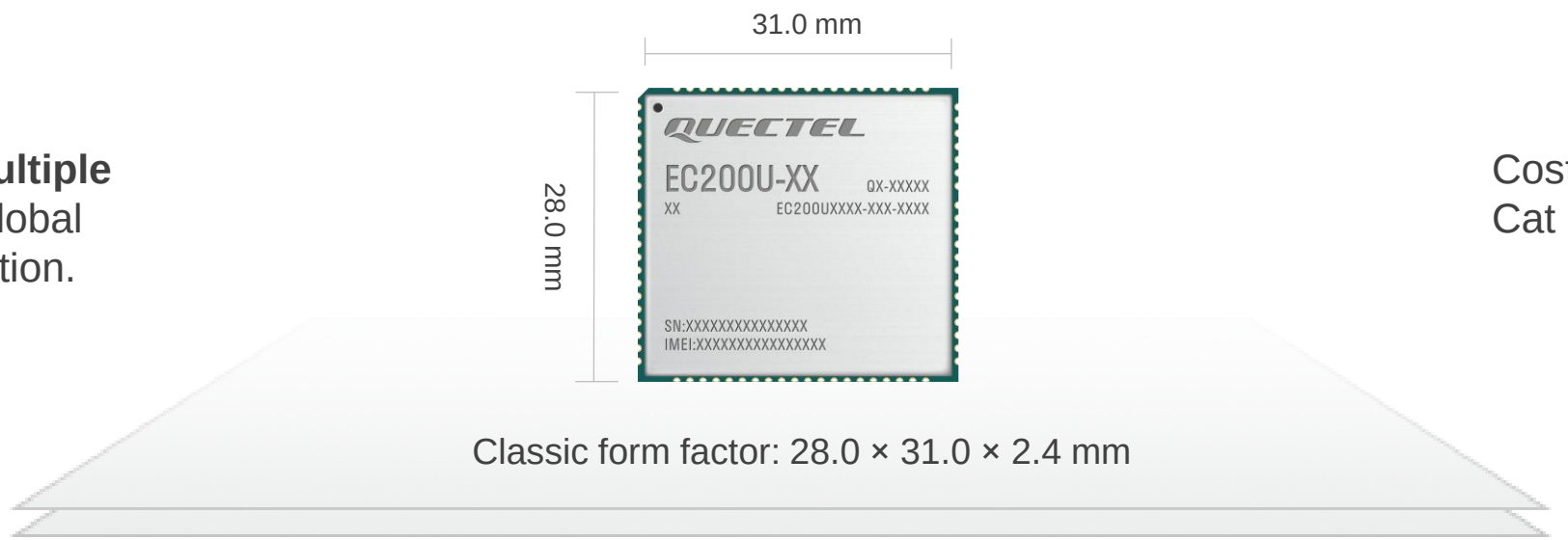
EC200A series specifications

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.

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

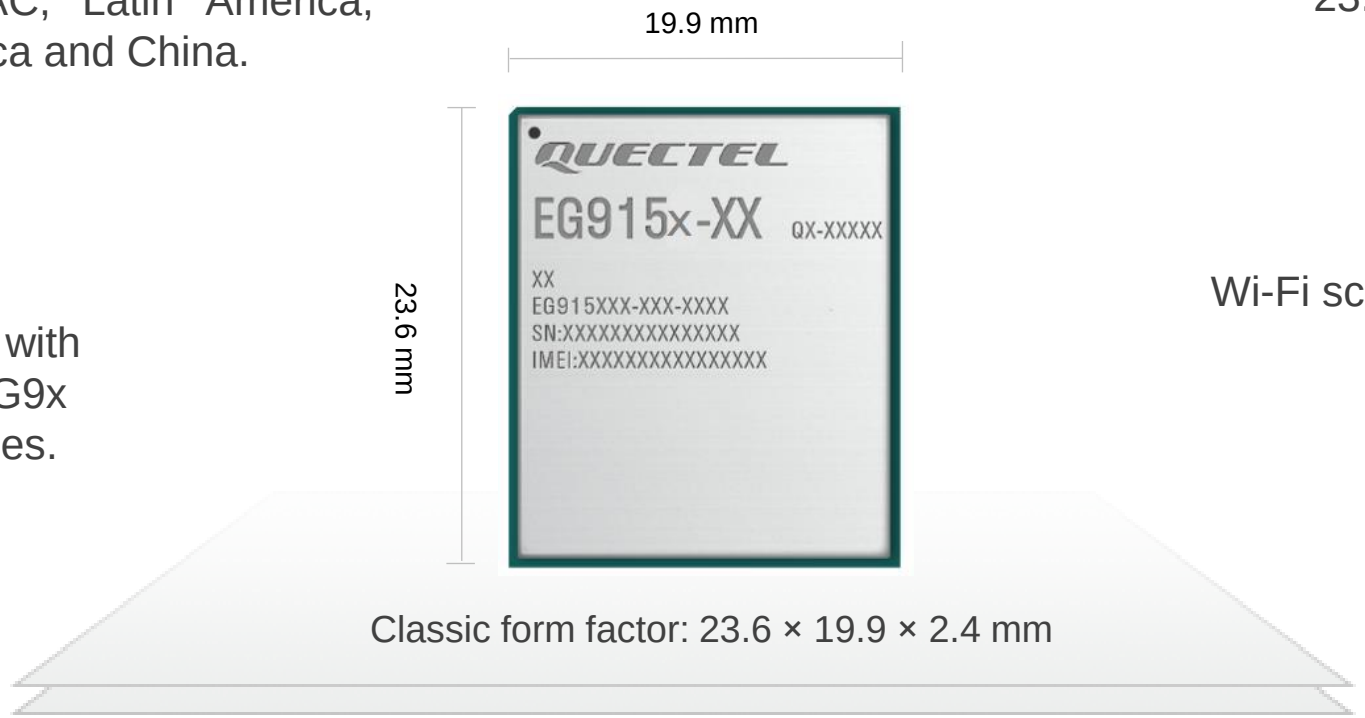
Variant			EC200U-CN	EC200U-EU	EC200U-AU
Region			China/ India	EMEA/ Australia/ New Zealand	Latin America
Chipset			UIS8910	UIS8910	UIS8910
LTE	**FDD band**		B1/ 3/ 5/ 8	B1/ 3/ 5/ 7/ 8/ 20/ 28	B1/ 2/ 3/ 4/ 5/ 7/ 8/ 28/ 66
	TDD band		B34/ 38/ 39/ 40/ 41	B38/ 40/ 41	B38/ 40/ 41
UMTS	**WCDMA band**		-	-	-
	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.

Extremely compact design: 23.6 × 19.9 mm.



Hardware compatibility with EG9x and BG9x series modules.

Wi-Fi scan (Optional).

EG915U series: Bluetooth 4.2 (optional).

GNSS (optional).

EG915Q-NA: Mini PCIe form factor (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	EG915Q-AF	EG915Q-JP
Region		EMEA/ Brazil/ Australia/ New Zealand	Latin America	China/ India	Europe	Latin America	Europe/ Asia	North America	North America	Japan
Chipset		UIS8910	UIS8910	UIS8910	ASR1603	ASR1603	ASR1603	QCX216	QCX216	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	B2/ 4/ 5/ 12/ 13/ 14/ 66/ 71	B1/ 3/ 8/ 18/ 19/ 26
	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	Optional	Optional
Wi-Fi Scan		Optional	Optional	Optional	Supported	Supported	Supported	Supported	Supported	Supported
Bluetooth		Optional	Optional	Optional	-	-	-	-	-	-
Mini PCIe form factor		-	-	-	-	-	--	Optional	-	-
DFOTA		Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Open solution		QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	QuecOpen®/ QuecPython®	-	-	-
Certification	**Carrier**	Deutsche Telekom/ KT/ LGU+*	-	-	-	-	-	Verizon*/ AT&T/ T-Mobile/ Telus①	T-Mobile*	NTT DOCOMO*/ KDDI*/ SoftBank*
	Regulatory	GCF/ CE/ RCM/ Anatel/ UKCA/ KC	FCC/ Anatel	SRRC/ NAL/ CCC	CE/ UKCA/ RCM	FCC/ Anatel	CE/ RCM	FCC/ IC/ GCF/ PTCRB	FCC*/ IC*/ GCF*/ PTCRB*	JATE*/ TELEC*
	Others	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL	WHQL
Project stage		MP	MP	MP	MP	MP	MP	CS	CS	ES

* : In progress.

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

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

Carrier	Deutsche Telekom/ KT	Completed
	LGU+	Start → Complete (Planned)
Regulatory	GCF/ CE/ RCM/ Anatel/ UKCA/ KC	Completed
Others	WHQL	Completed

EG915Q-NA (without GNSS) timeline

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

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

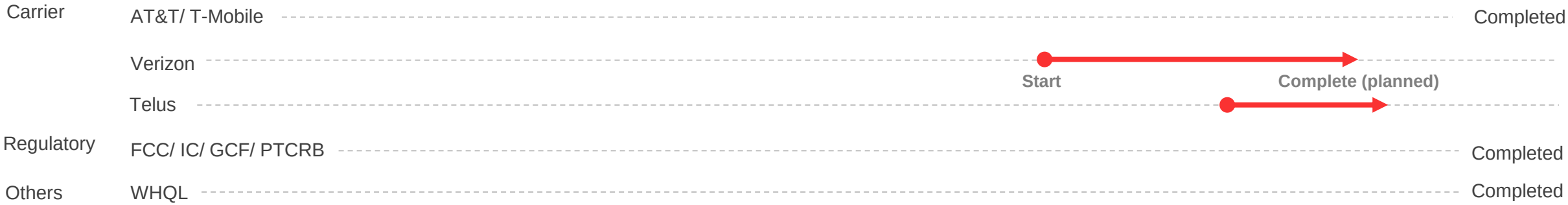
2023									2024								
Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.

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



EG915Q-AF timeline

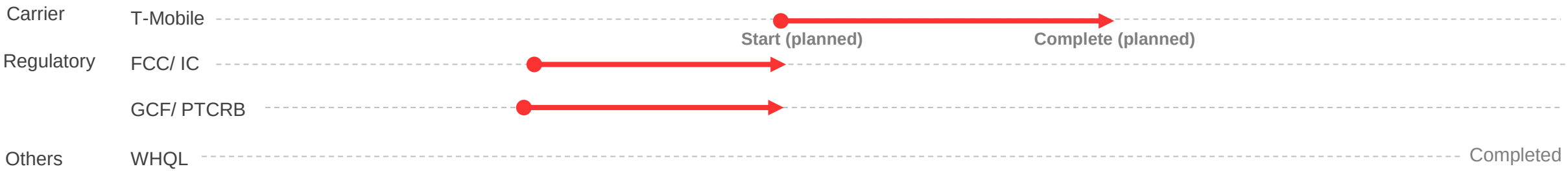
2024											
Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.

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-JP timeline

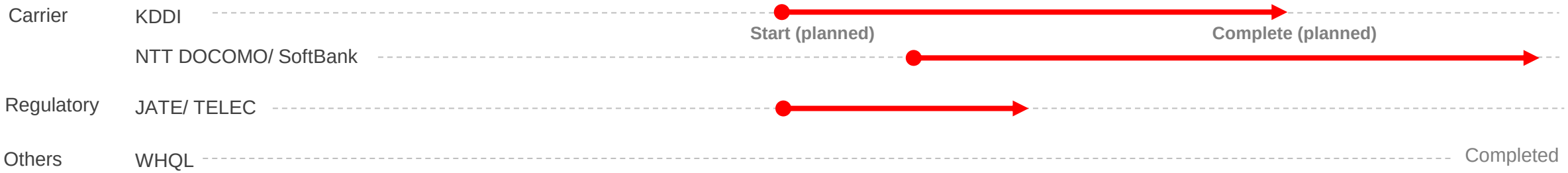
2024											
Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.

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.

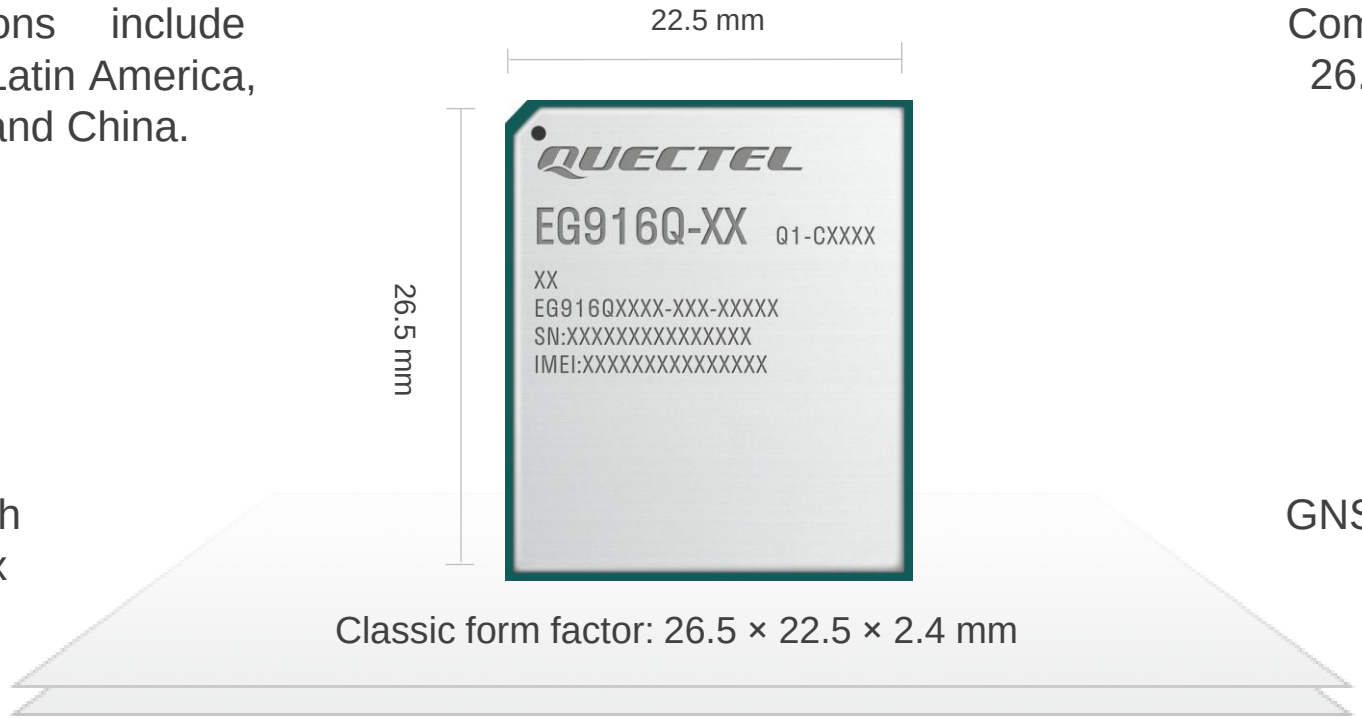
Certification



EG916Q-GL highlights

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

Hardware compatibility with EG9x and BG9x series modules.



Compact design: 26.5 × 22.5 mm

Wi-Fi Scan.
GNSS (Optional).

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	CE/ FCC/ IC/ KC/ RCM/ GCF*/ PTCRB*/ Anatel*/ SRRC①/ NAL①/ CCC①
	Others	WHQL
Project stage		CS

* : Under development/ In progress. ①: To be determined.

EG916Q-GL timeline

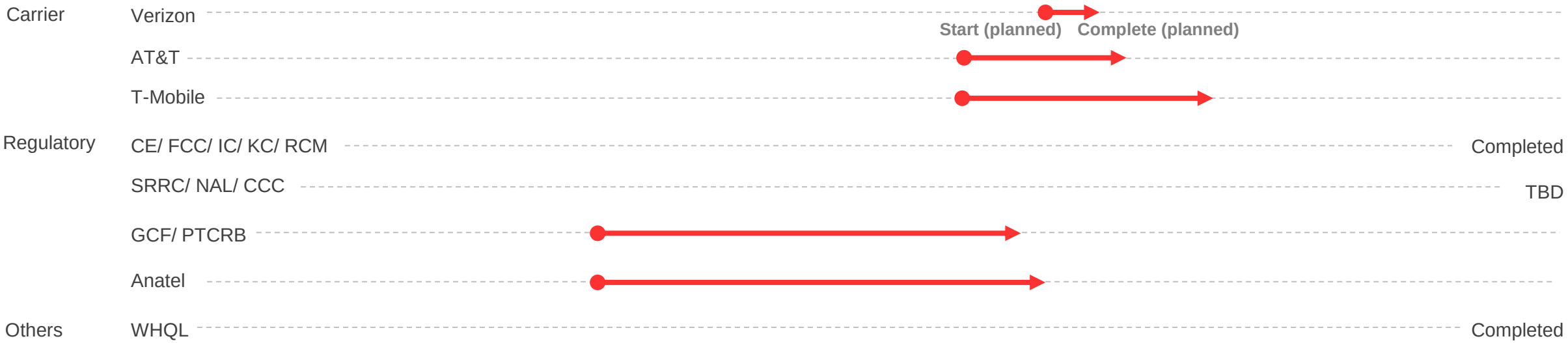
2023						2024											
Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.

Project schedule



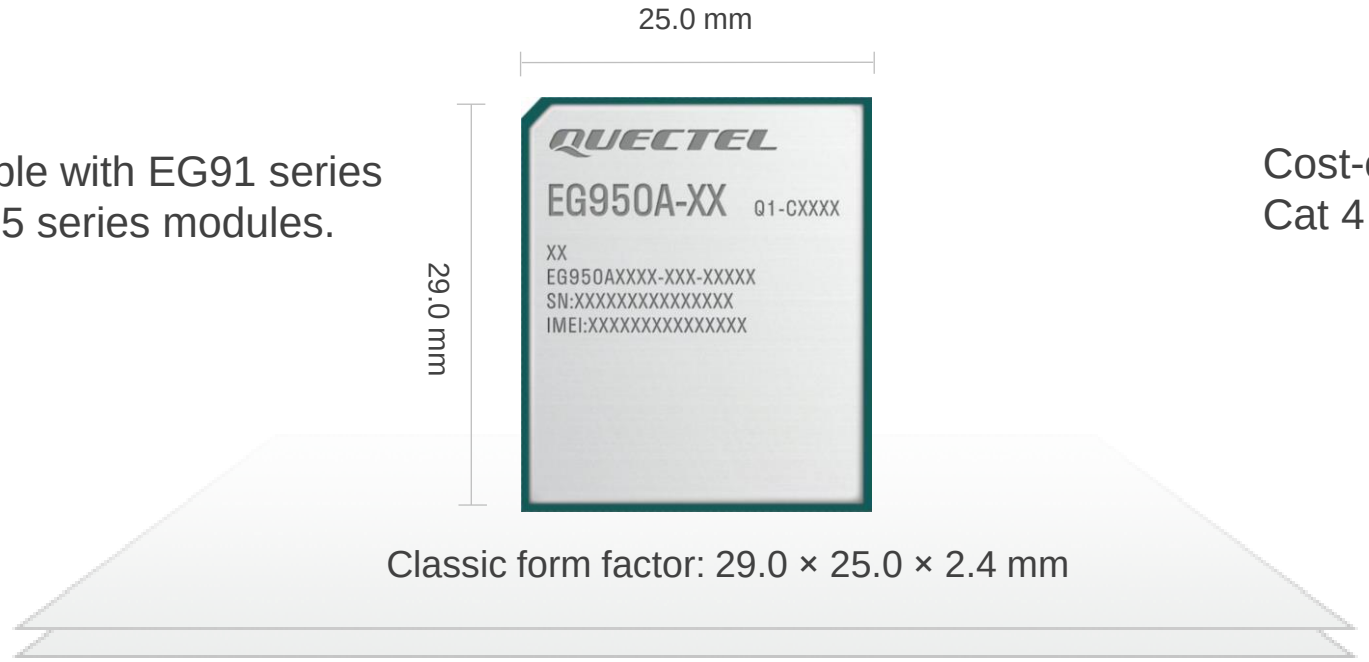
ES: Engineering samples ready. Basic functions are available for customers' simple demo purpose.
CS: Commercial samples ready. Stable hardware design and quite stable software design. New software features can be added upon request.
MP: Hardware and software ready for mass production.

Certification



EG950A series highlights

Compatible with EG91 series and EG95 series modules.



Classic form factor: 29.0 × 25.0 × 2.4 mm

Cost-optimized Cat 4 module.

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/ Australia/ New Zealand	Latin America
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.	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/ UCKA	Completed

EG950A-LA timeline

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

Project schedule



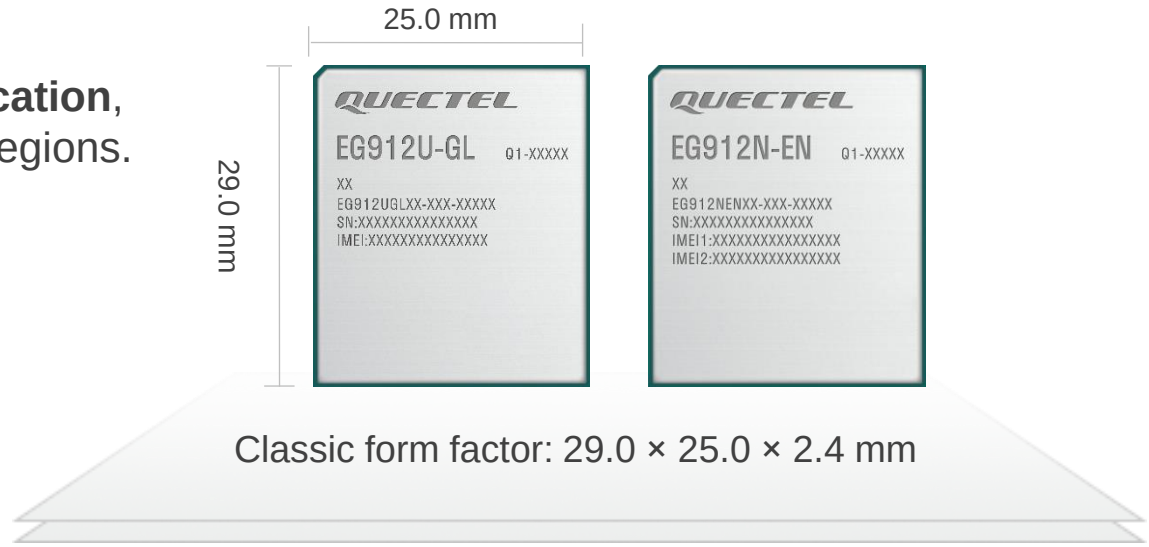
ES: Engineering samples ready. Basic functions are available for customers' simple demo purposes.
CS: Commercial samples ready. Stable hardware design and quite stable software design. New software features can be added upon request.
MP: Hardware and software ready for mass production.

Certification

Regulatory	FCC/ Anatel	Completed

EG912N-EN/ EG912U-GL highlights

Global SKU with worldwide certification, covering multiple regions.



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

EG912N-EN:
LTE450 Cat 1 module.

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	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

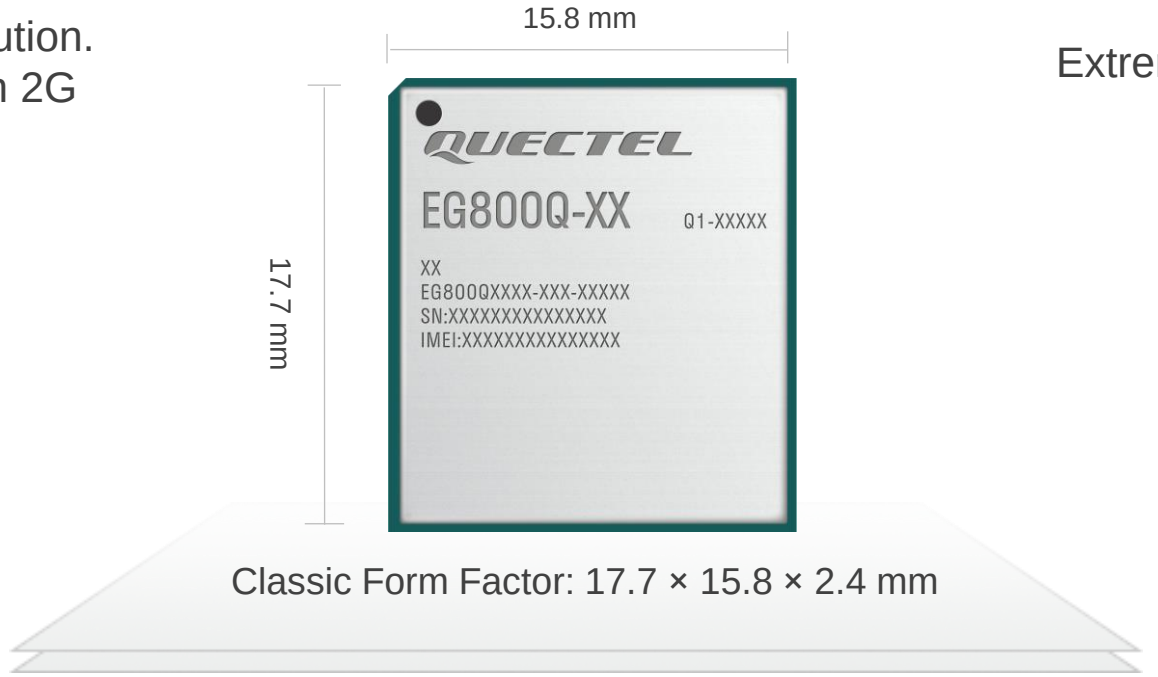
LTE 450 MHz

* : Under development.

Back

EG800Q series highlights

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



Extremely compact design:
17.7 × 15.8 mm.

Compatible with various variants.

Wi-Fi Scan.

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/ Spark*	Verizon①/ AT&T①/ T-Mobile①
	Regulatory	CE/ UKCA/ RCM/ Anatel*	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-EU timeline

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

Project stage

EG800Q-EU — MP

Certification



EG800Q-NA timeline

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

Project stage

EG800Q-NA — MP ①

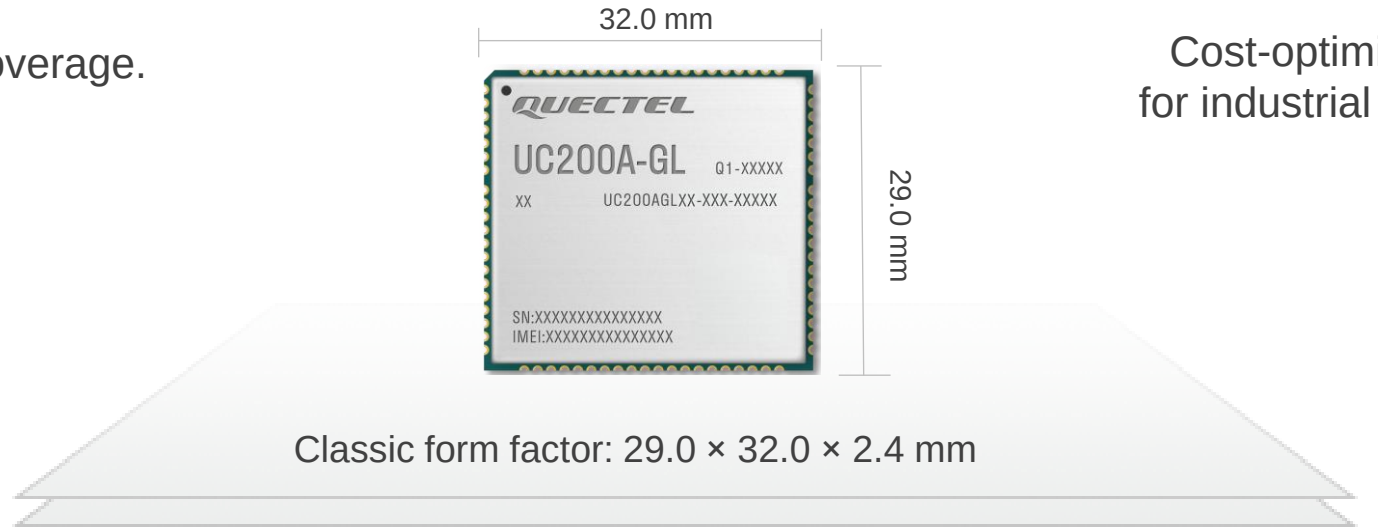
Certification

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

①: MP without carrier certificates

UC200A-GL highlights

Worldwide coverage.



Cost-optimized solution
for industrial applications.

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

UC200A-GL specifications

29.0 mm × 32.0 mm × 2.4 mm
21 Mbps DL/ 5.76 Mbps UL

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/ (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

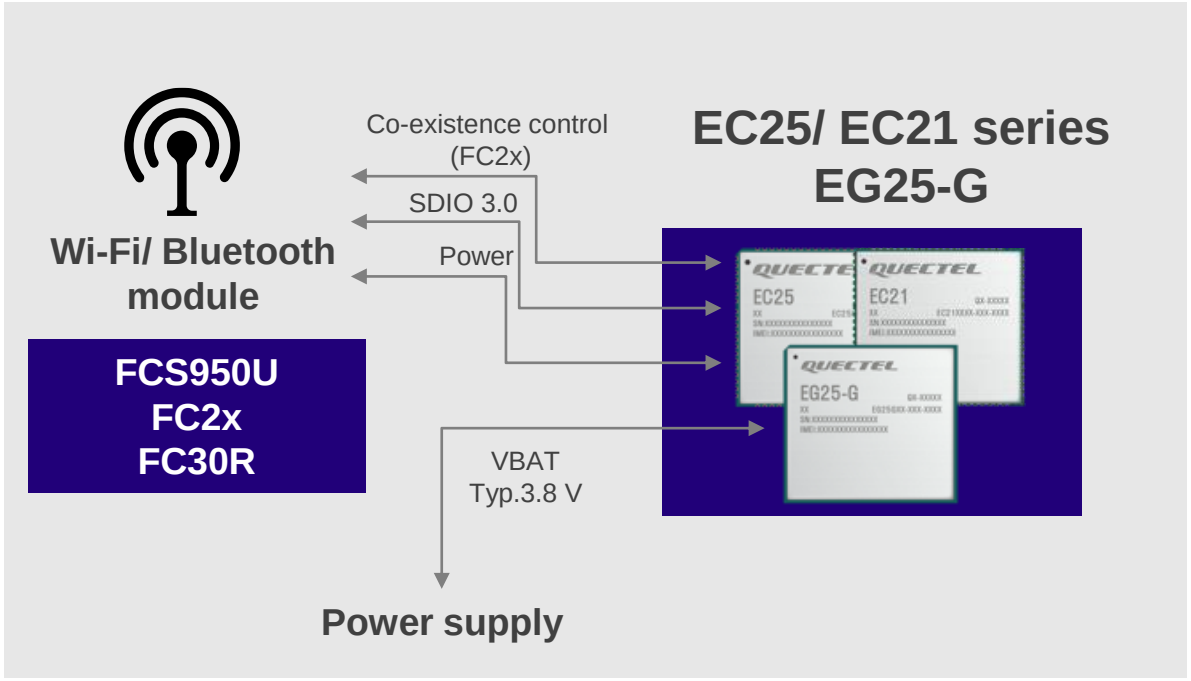
* : Under development.

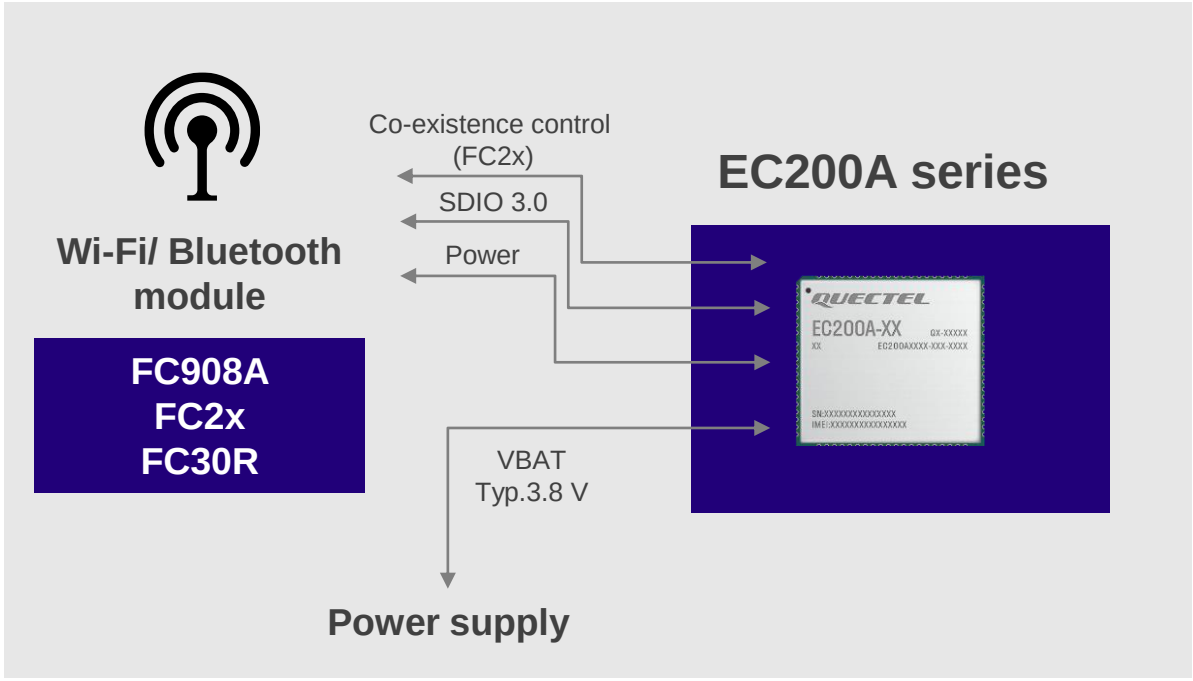
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Specifications & timelines	07
Product advantages	**46**
Typical applications	56
Customer support	65

LTE + Wi-Fi solution (1)

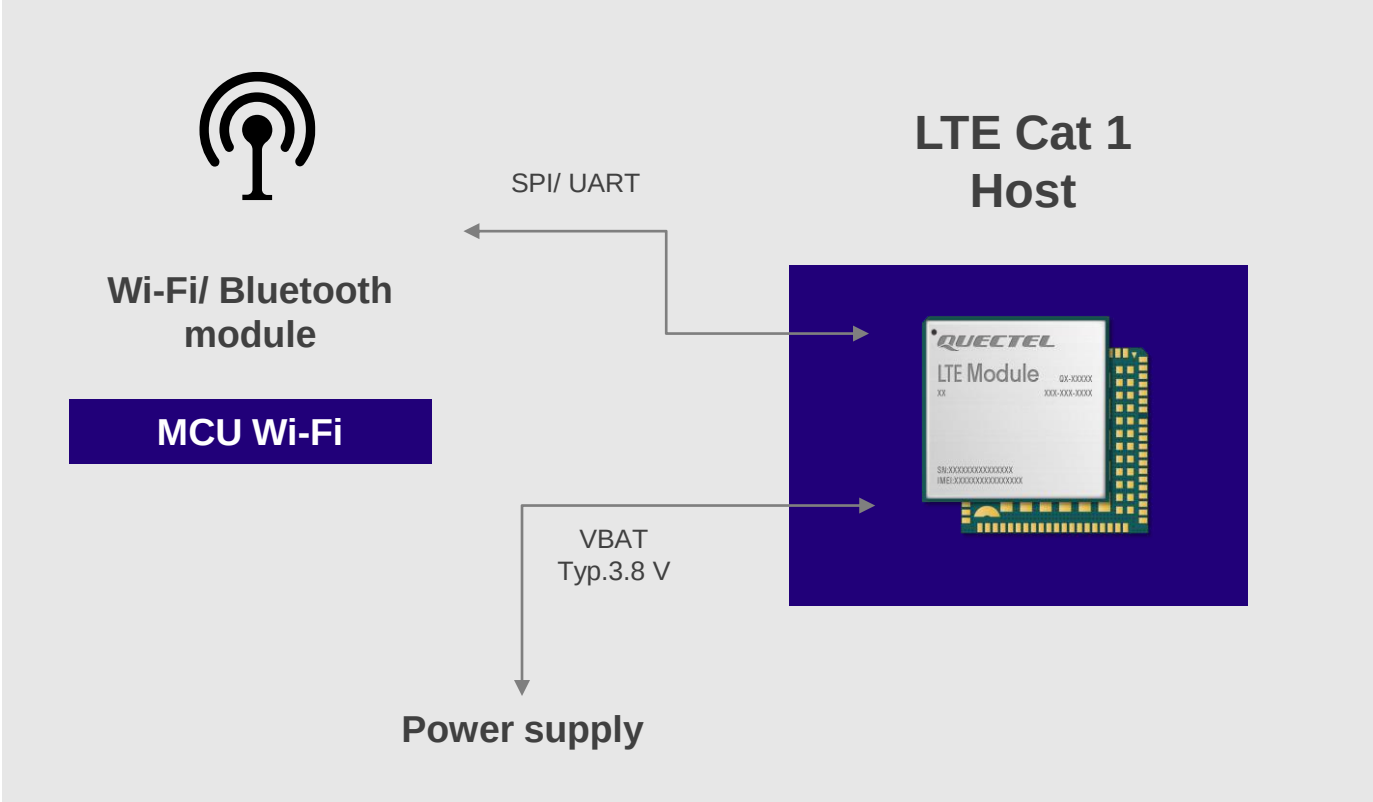




- Application: IoV, OBD, tracker, etc.
- Soft-AP and STA functions.
- Excellent co-existence mechanism with optimum software and hardware designs.

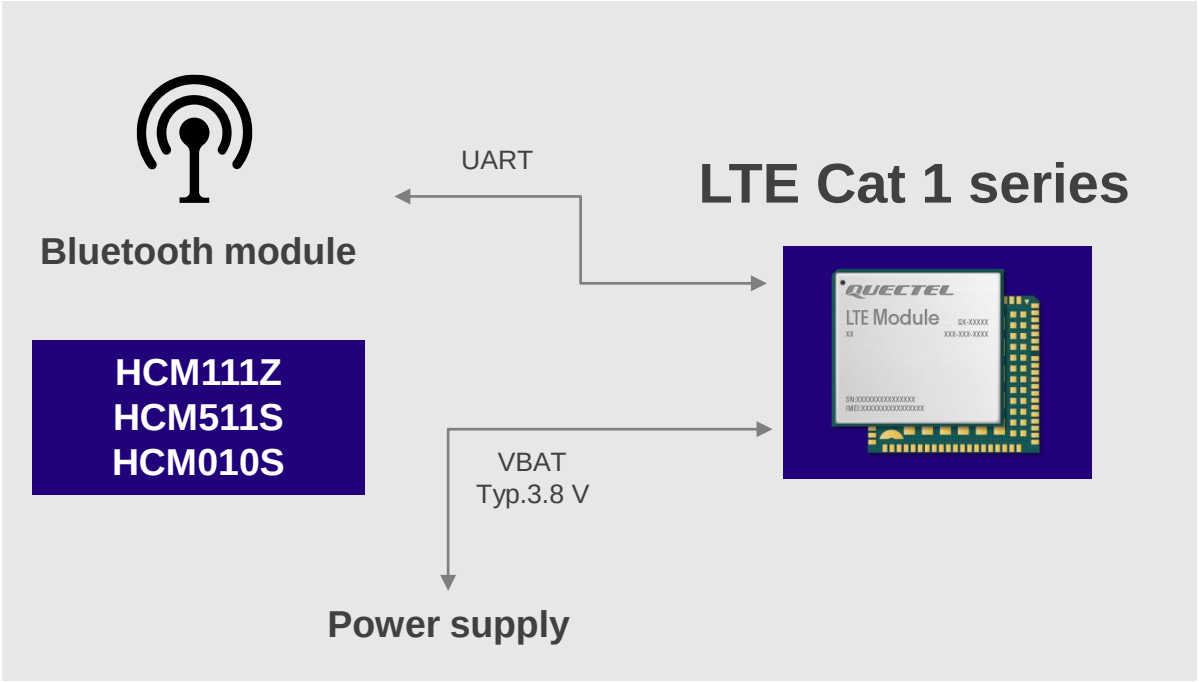
EC200A series module can only be in combination with FC30R in QuecOpen® solution.
FC30R supports only hardware co-existence control. Software co-existence control is not supported.

LTE + Wi-Fi solution (2)



- EG915U series + FC41D/ FCM360W solution.
- Application: Payment, interphone, charging pile, and new energy applications including PV.
- Soft-AP and STA functions.

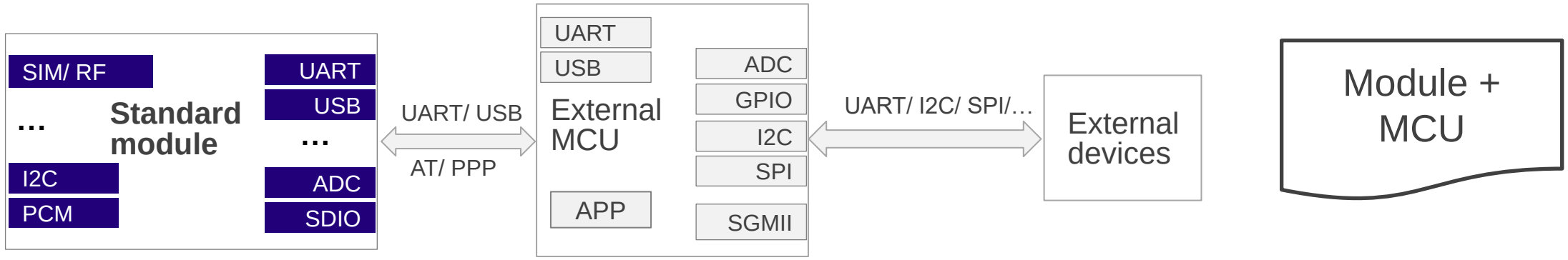
LTE + Bluetooth solution



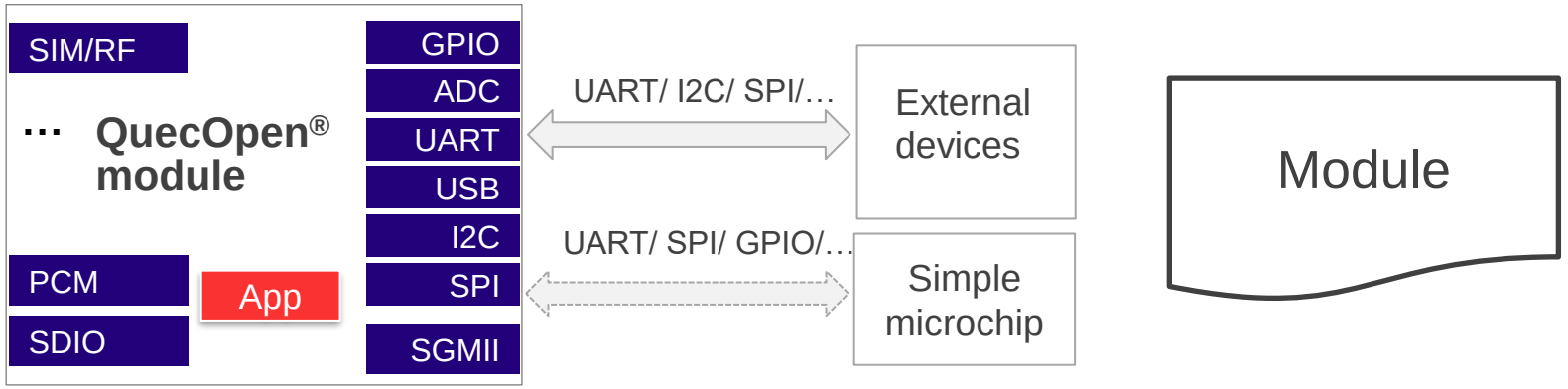
- LTE Cat 1 + Bluetooth Low Energy (BLE) modules solution.
- BLE is used for parameter configuration, dual-role and data transmission.
- Application: Photovoltaic, interphone, charging plie, metering, two-wheeler and other new-energy industries.

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.

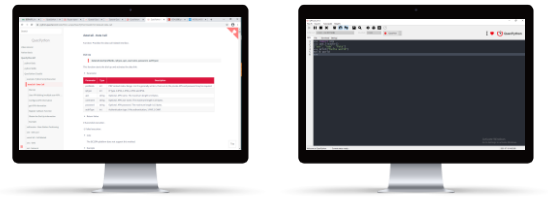
QuecPython®

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



Payment speaker | GNSS locator and positioning tracker | Data transport unit | Interphone | Smart student card | Smart helmet

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



QuecPython

A new method of IoT programming

- Hardware level lock
- Software advanced encryption

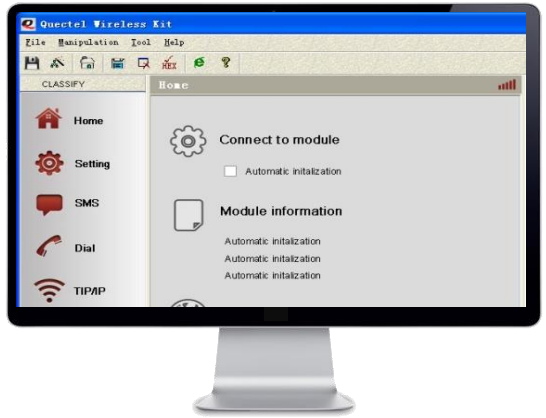


- Bidirectional isolation of client code and hardware environment
- Unified API that can be used for developing applications and subsequently for running scripts freely on any module or platform
- Cost-free code and platform migration for trouble-free hardware selection



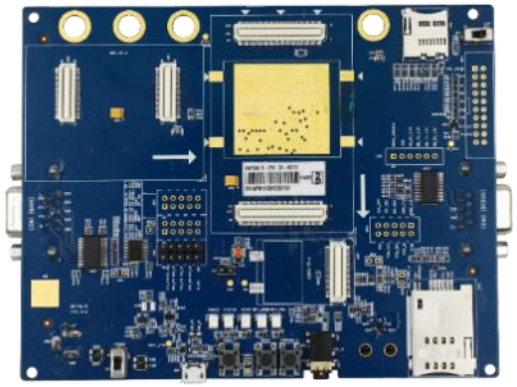
GUI: Graphical User Interface

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

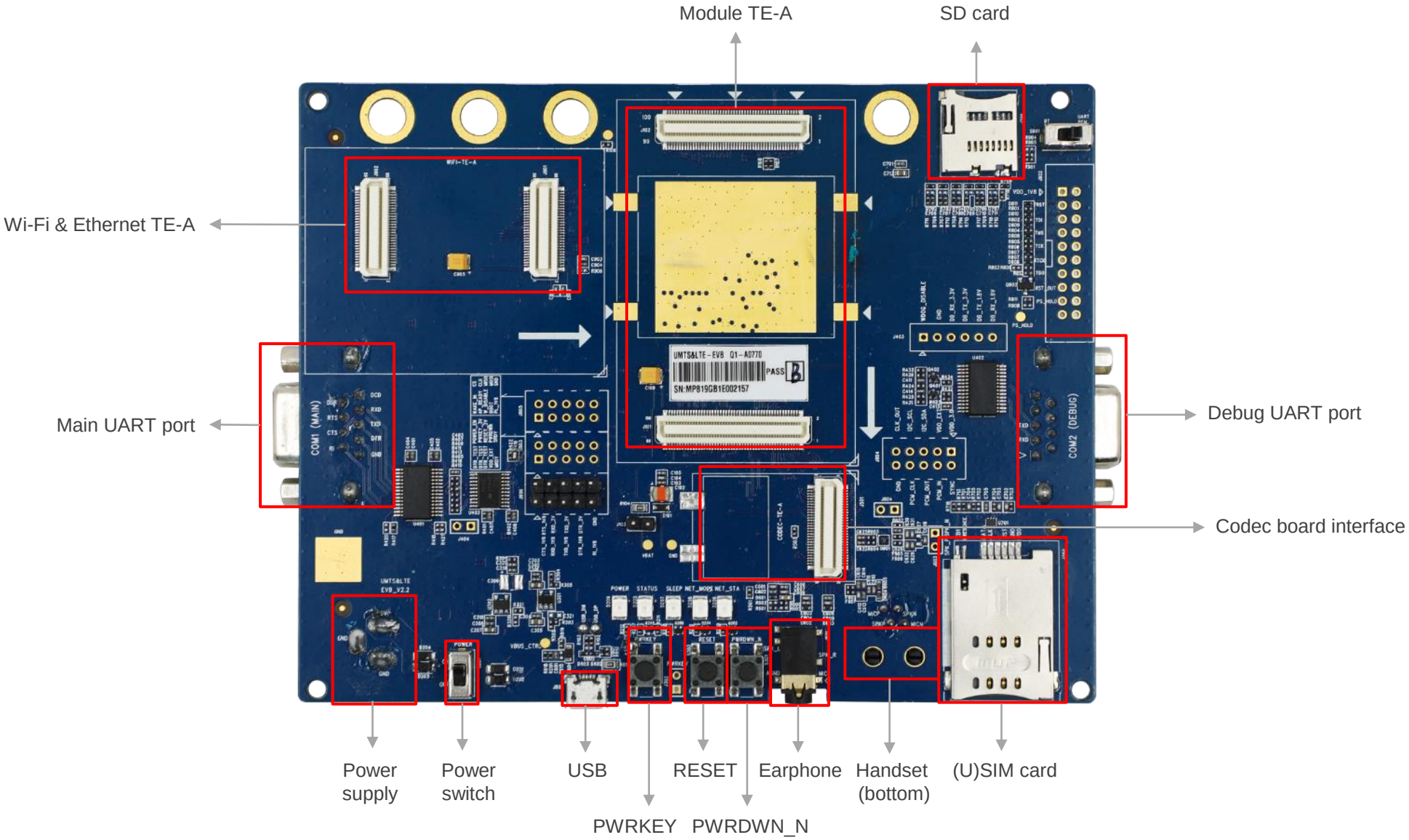


Mini PCIe module EVB

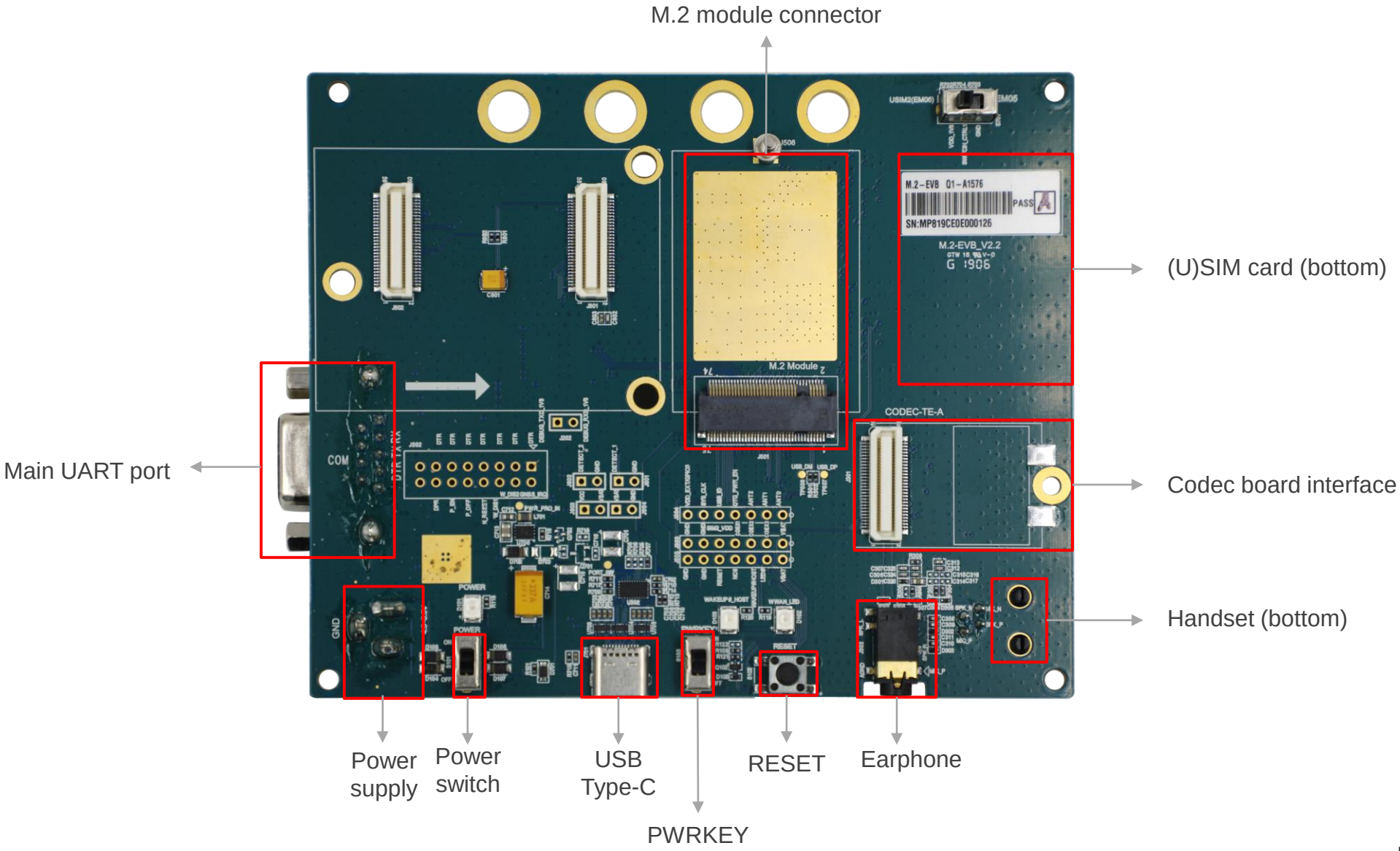


M.2 module EVB

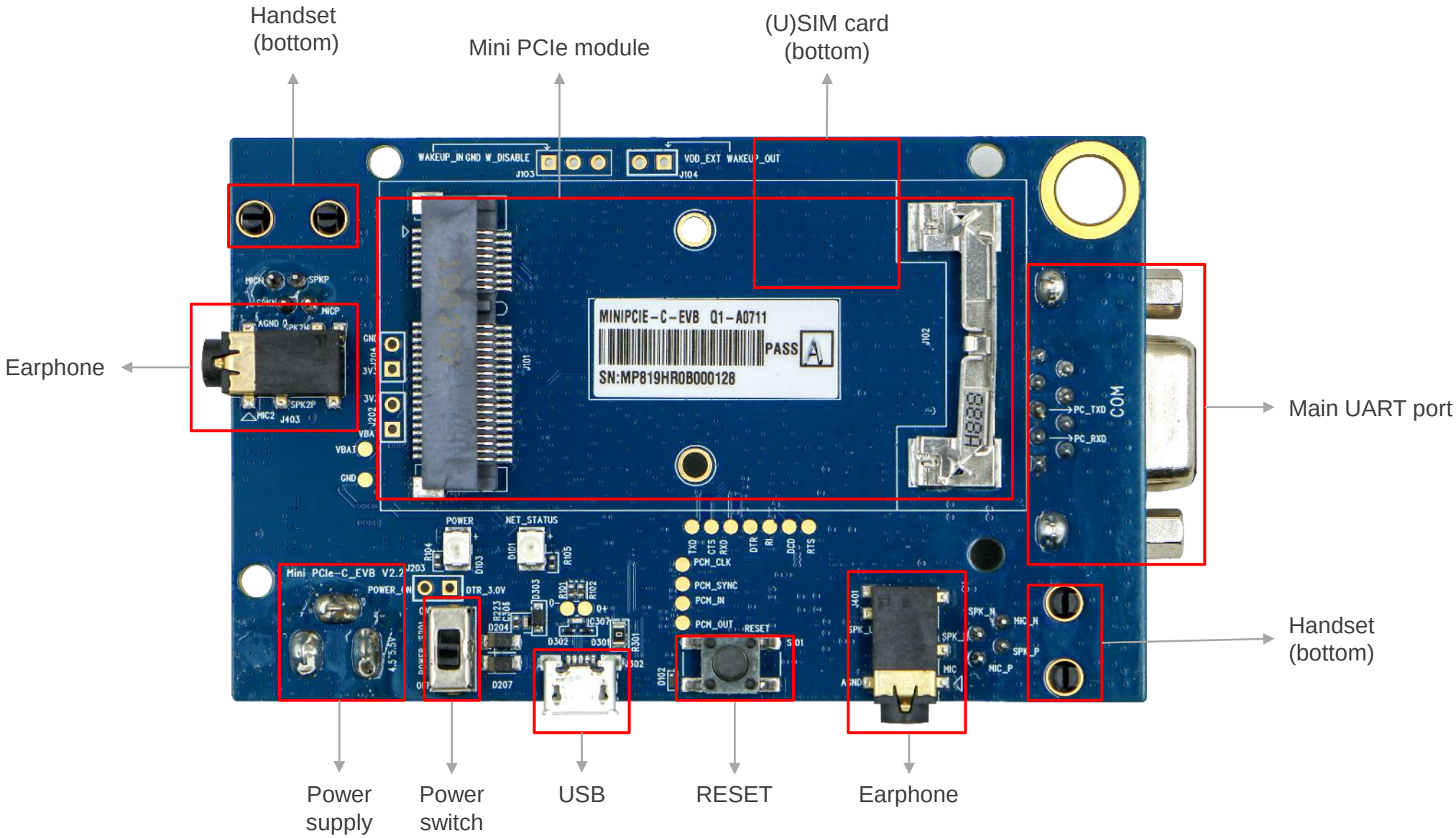
Support kit – LCC & LGA module EVB



Support kit – M.2 module EVB



Support kit – Mini PCIe module EVB

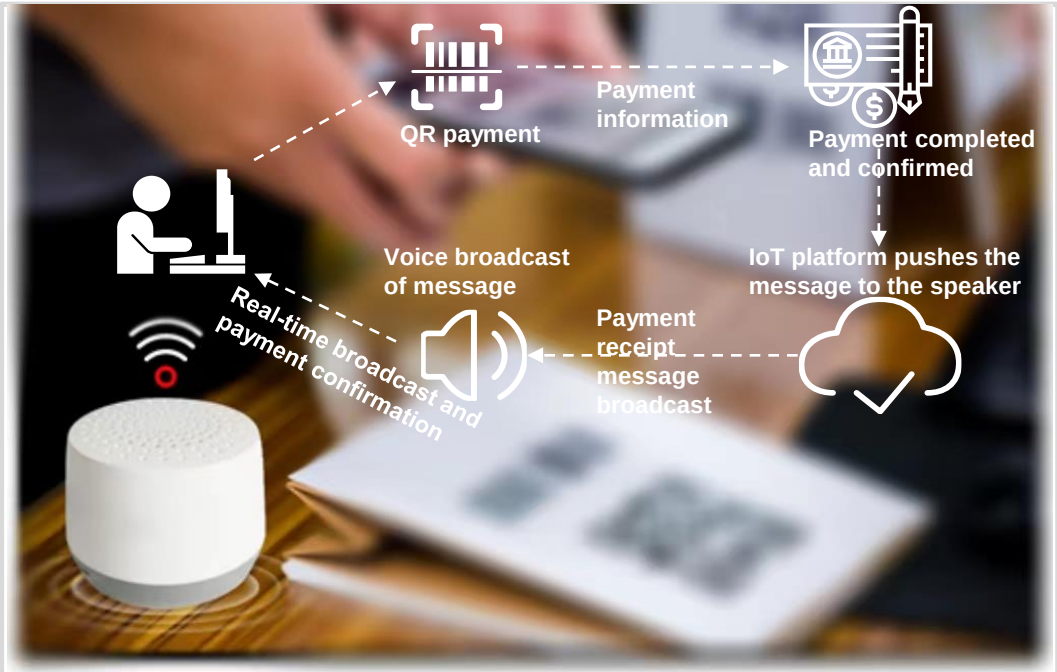


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Cloud speaker

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

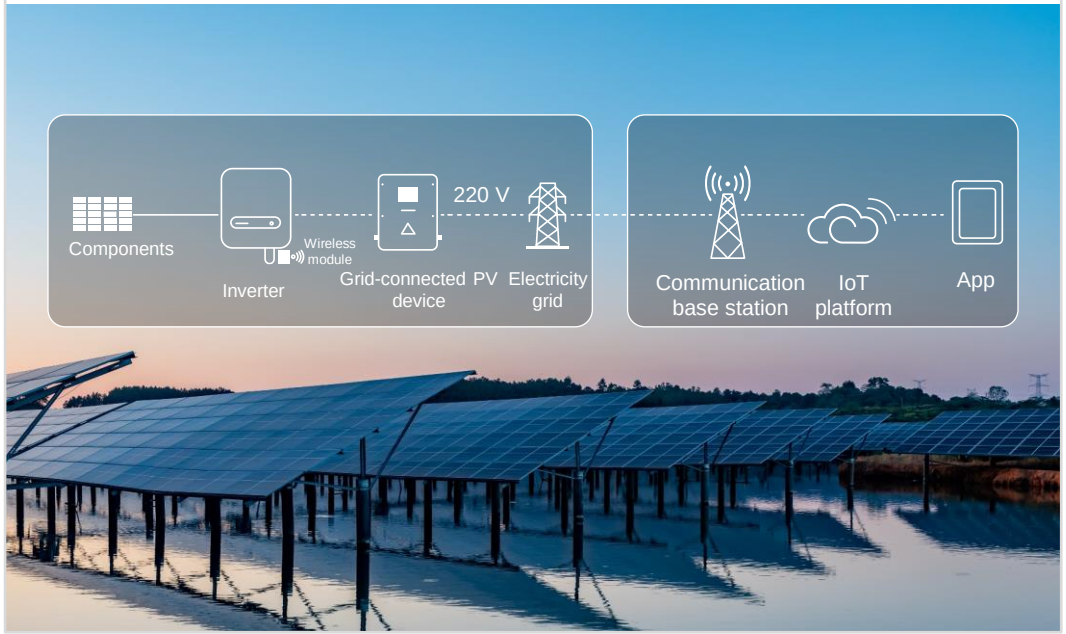
- Payment receipt broadcasting
- Voice broadcasting in station and airport
- Local radio in rural area

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.

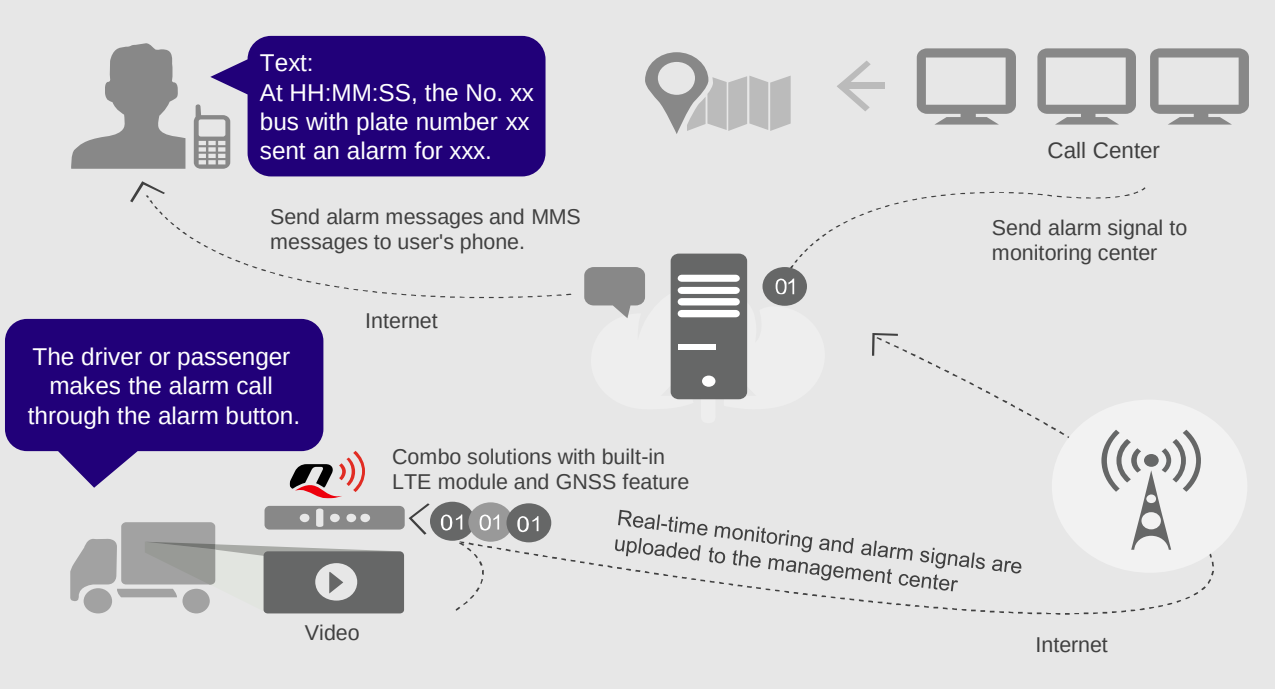
4G Cat 1 series modules covering multiple chipsets and sizes satisfy the diverse demands of customers to market their terminal products in different areas around the world.

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

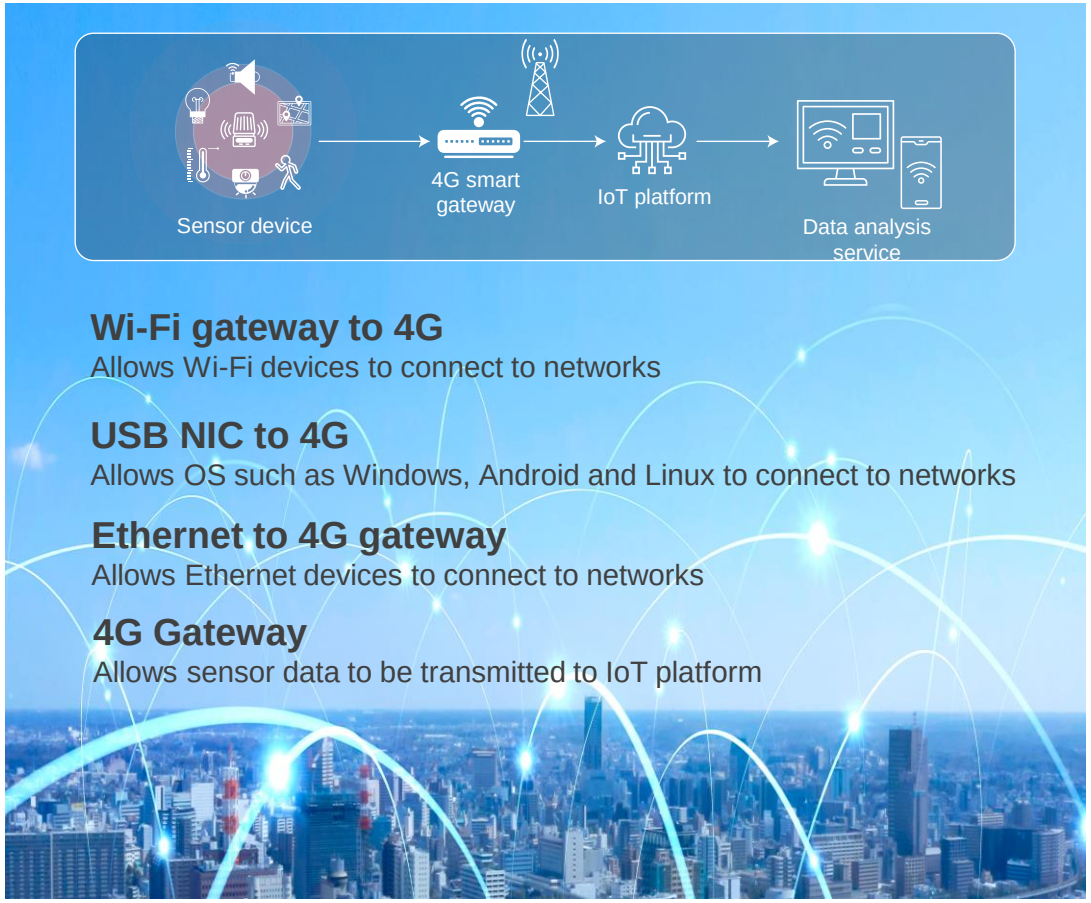
- Open solutions such as Linux, QuecPython® and FreeRTOS
- Complete example code for reference

Additional services including IoT platform and optimal antenna

LBS: Location Based Services

4G smart gateway

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



Solution highlights

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

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

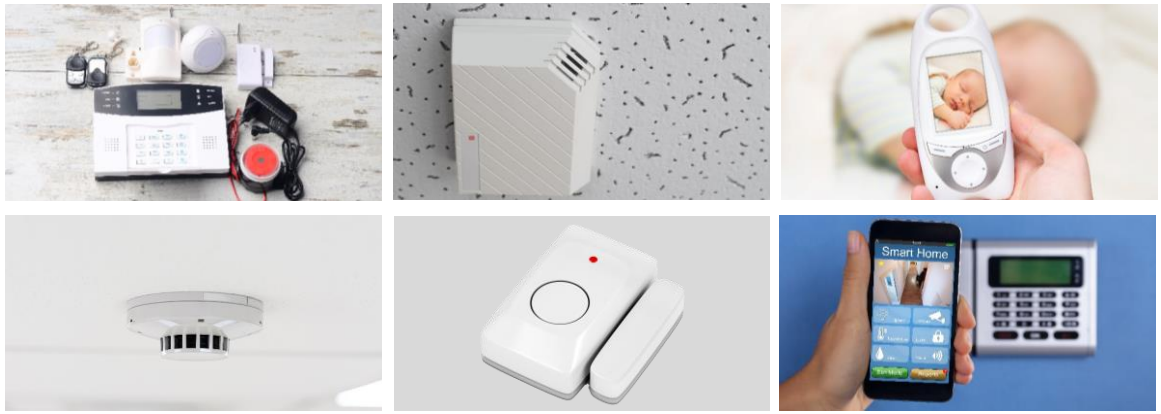
Various Open solutions：

- 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.

Smart safety



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

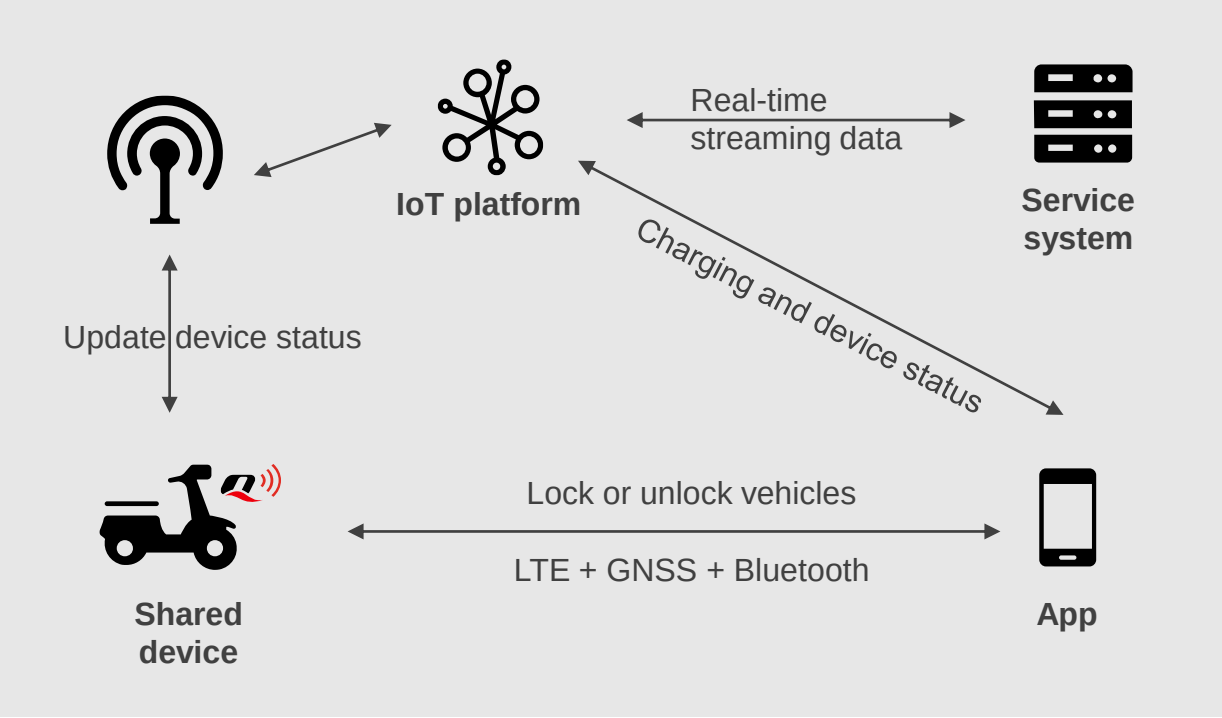
Support for safety functions related to system and software

PSM: Power Saving Mode

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.

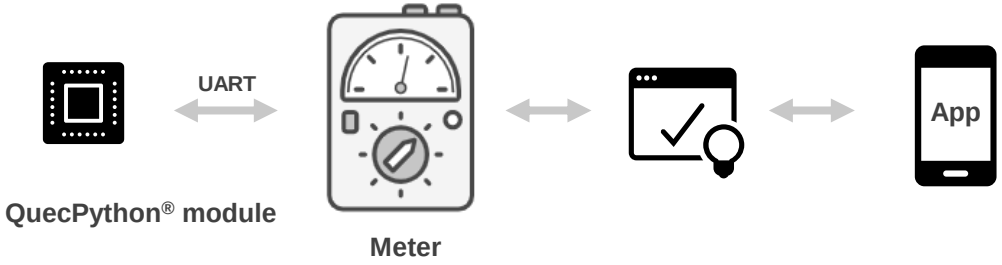
Smart meter

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.

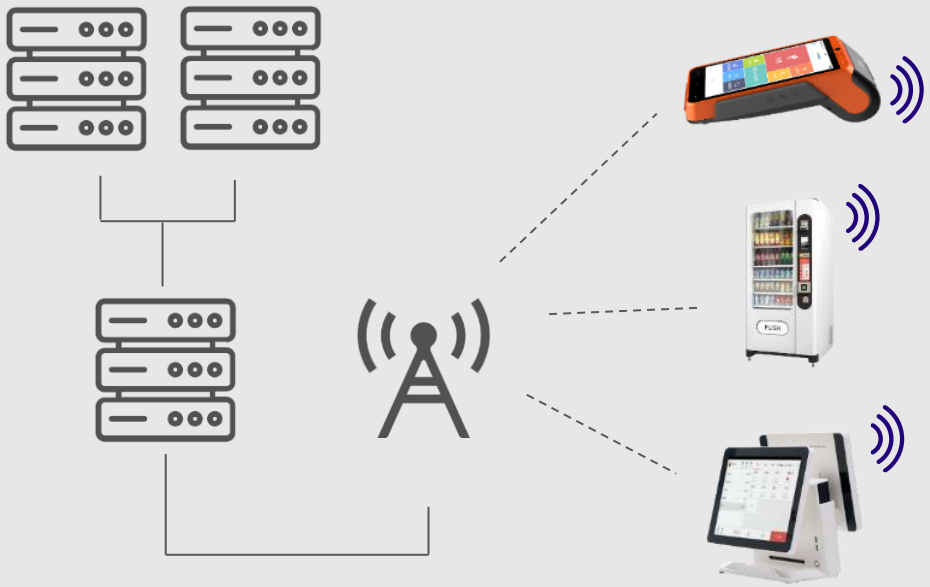
A brand-new meter reading mode

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

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

POS

- 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.

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Quectel 360 degree support



1. SYSTEM EVALUATION

- Analyze customer's requirements
- Recommend the right module for the customer
- Antenna placement evaluation
- Antenna design

2. DESIGN IN

- Recommend referenced hardware designs
- Check schematic and layout
- Provide software design support

3. PROTOTYPE

- Provide design validation testing
- Recommend suppliers

4. TESTING SERVICE

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

5. MASS PRODUCTION

- Provide assembly and testing guidelines
- After-sales service

Thank you

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