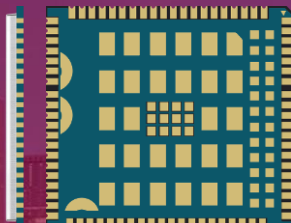


# Quectel EC25

IoT/M2M-optimized

LTE Cat 4 LCC Module



## EC25-E-FA\_KR

# Release Notes

### LTE Standard Module Series

Rev. EC25-E-FA\_KR\_Firmware\_Release\_Notes\_V0805\_01.001.01.001

Date: 2024-09-24

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## 1. Release Content

This document provides the Release Notes for EC25-E-FA\_KR. The current release includes the following package.

Package	Firmware Version	Configuration Version
Firmware	EC25EFAR08A05M4G_KR	01.001.01.001

## 2. Matters Needing Attention

SN	Item
[1]	In AP mode, due to memory limitations, WIFI supports 10 clients at most.
[2]	To extend the service life of flash, it is recommended that the total number of operations related to powering on/off the module, CFUN switching, SIM card hot swapping, dual-SIM switching, or repeated execution of NVM commands should not exceed 30 times per day.
[3]	It is not recommended to directly modify the pre-set APN profiles. Please create an APN profile after the existed CID number. Suppose you modify the APN profile of IMS, SOS, etc. with added specific attributes, these attributes are hidden after modification, causing the profile to still be unavailable.
[4]	<p><b>AT+QGDCNT=1</b> and <b>AT+QPDPGDCNT=1</b> will write data to the flash. Therefore, please do not execute the AT commands frequently. <b>AT+QAUGDCNT</b> is used in conjunction with the above commands to automatically save the packet data counter.</p> <ol style="list-style-type: none"> <li>If there are no mandatory needs, it is not recommended to use these AT commands;</li> <li>The time interval set by the timer needs to be lengthened when you use these AT commands.</li> </ol>
[5]	Cross-baseline software version update is not supported. For EC25EFAR08A05M4G_KR, "R08" represents the baseline information. This Quectel module does not support updating to a firmware version other than R08. If you have any related requirements, please contact Quectel Technical Support.
[6]	This firmware version is customized. For EC25EFAR08A05M4G_KR, "KR" represents the custom software version information. It is not recommended to cross-upgrade with the general version. If you have any related requirements, please contact Quectel Technical Support.
[7]	During the FOTA upgrade process, it is necessary to ensure the stable power supply of the module. If the power is disconnected during the upgrade, there is a small probability that the flash will be damaged.

### 3. Release History

#### 3.1. Firmware Release History

Firmware Version	Configuration Version	Description
EC25EFAR08A05M4G_KR	01.001.01.001	Mass production.
EC25EFAR08A04M4G_KR	01.001.01.001	Mass production.
EC25EFAR08A03M4G_KR	01.001.01.001	Mass production.
EC25EFAR08A02M4G_KR	01.003.01.003	Mass production.
EC25EFAR08A02M4G_KR	01.002.01.002	Mass production.
EC25EFAR08A02M4G_KR	01.001.01.001	Mass production.
EC25EFAR08A02M4G	01.001.01.001	Mass production.
EC25EFAR08A01M4G	01.001.01.001	Mass production.

#### 3.2. New Features

EC25EFAR08A05M4G_KR_01.001.01.001	
Item	Brief Description
<b>GENERAL</b>	Added <b>AT+QW1SETMAC</b> to modify the MAC address of WLAN1.
EC25EFAR08A04M4G_KR_01.001.01.001	
Item	Brief Description
<b>Voice Call</b>	Supported playing local ringback tone based on the voice over usb function.
EC25EFAR08A03M4G_KR_01.001.01.001	
Item	Brief Description
<b>AUDIO</b>	Supported recording 16 K audio files in wav format.
<b>CMUX</b>	Added <b>AT+QCFG="cmux/flowctrl"</b> to control hardware flow control in CMUX mode.

HTTP	Added <b>AT+QHTTPCFGEX</b> , and <b>AT+QHTTPCFGEX="send_add"</b> can support the configuration of up to 36 parameters for POST multiple files to the server.
NETWORK	Added <b>AT+QNWCFG="rej_cause_7_mapping"</b> to control whether to map the network rejection reason value #7.
TCP SSL	Added <b>AT+QSSLOPENEX</b> to support the establishment of SSL connection in a short time.
TCP SSL	Solved the problem that an error occurred at <b>AT+QSSLCFG="renegotiation"</b> to set.
GENERAL	Supported oemapp upgrade function.
GENERAL	In SoftSIM SDK, supported the rollback function if the upgrade fails.
GENERAL	Added <b>AT+QGPSSNRTEST</b> to test CN of satellite signal.
GENERAL	Added <b>AT+QCFG="secbootstat"</b> to get SecBoot status.

#### EC25EFAR08A02M4G\_KR\_01.003.01.003

Item	Brief Description
AUDIO	Supported saving recording files to SD card.
AUDIO	Added es8311 and es8374 codec, and added <b>AT+QDAI</b> to set the value of es8311 and es8374 codec ( <b>AT+QDAI=10</b> sets es8311, and <b>AT+QDAI=11</b> sets es8374).
TCP/UDP	Added <b>AT+QCFG="TCP/SendMode"</b> to control when to report SEND OK.
TCP/UDP	Added commands below: 1. <b>AT+QICFG="send/auto"</b> to send specified data (heartbeat) regularly. 2. <b>AT+QICFG="recv/ignore"</b> to ignore the specified data (response) received.
TCP/UDP	Added <b>AT+QICFG="wakeup/data"</b> to configure the content of the wakeup data packet.
GENERAL	Extended the GSM coding table to support more characters.
GENERAL	Added <b>AT+QCFG="urc/ri/udp"</b> and <b>AT+QCFG="urc/ri/udp_enable"</b> to control the RI of TCP/UDP.

#### EC25EFAR08A02M4G\_KR\_01.002.01.002

Item	Brief Description
DFOTA	Supported DFOTA for KT&LGU.
GENERAL	Added IMS configuration commands <b>AT+QIMSCFG="session_timer"</b> and <b>AT+QIMSCFG="regpriority"</b> for SIP session timer and registration priority respectively.

#### EC25EFAR08A02M4G\_KR\_01.001.01.001

Item	Brief Description
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<b>BT</b>	Added <b>AT+QBTGATADVDATA</b> to configure ADV data.
<b>NETWORK</b>	Added <b>AT+QLTENGBR</b> to get LTE neighborhood information.
<b>TCP SSL</b>	Added <b>AT+QSSLCFG="dtls"</b> to support DTLS function.
<b>TCP/UDP</b>	Added <b>AT+QICFG="sendpktsize"</b> to set the size of data that can be sent by <b>AT+QISEND</b> . Added <b>AT+QCFG="tcp/mss"</b> to set MSS size.
<b>WIFI</b>	Added <b>AT+QWIFICFG="fc20_21"</b> to switch between FC21 and FC20 goldenbin.
<b>GENERAL</b>	Added <b>AT+QDISIMEIW</b> to set the module to enter IMEI Protect mode and check whether the module is in IMEI Protect mode.
<b>NETWORK</b>	Added <b>AT+QCOPSCFG</b> to configure the performance of <b>AT+QCOPS</b> .
<b>NETWORK</b>	Added AT command to control <b>AT+COPS</b> to scan band, not affecting the band scan of <b>AT+QCFG="nwscanmodeex"</b> .
<b>NETWORK</b>	Added <b>AT+QCFG="netmaskset"</b> to configure network card subnet mask.
<b>GENERAL</b>	Added <b>AT+QWDNS</b> to configure DNS server address.
<b>GENERAL</b>	Added <b>AT+QTXPWR</b> to get Tx power related information.
<b>GENERAL</b>	Added <b>AT+QCFG="hardcoded_ecc_list"</b> .

#### EC25EFAR08A02M4G\_01.001.01.001

Item	Brief Description
<b>TCP/UDP</b>	Added <b>AT+QISENDX</b> to send data directly.
<b>Voice Call</b>	Added <b>AT+QCFG="call_control"</b> to configure whether to automatically hang up a voice call.
<b>GENERAL</b>	Supported determining whether to filter UDP packets according to the destination address of DHCP by executing <b>AT+QCFG="dhcppktfltr",2</b> .
<b>GENERAL</b>	Added <b>AT+QBTSPPCOM</b> to establish SPP connection with remote Bluetooth device.

#### EC25EFAR08A01M4G\_01.001.01.001

Item	Brief Description
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### 3.3. Improved Features

EC25EFAR08A05M4G_KR_01.001.01.001	
Item	Brief Description
LowPower	Fixed the problem that example_lpm did not work.
NETWORK	Fixed the module exception problem caused by QMI dmc_activity_inf_ind_msg when the SIM card was inserted and the network was registered.
NETWORK	Added the management for attach reject #8 to meet with SKT new requirement.
NETWORK	Modified <b>AT+QCFG="ims"</b> to work the same as <b>AT+QIMSCFG="ims"</b> when Korea MCFG was used.
NETWORK	Modified to disable IPSec in SKT MBN.
SMTP	Solved the problem of slow sending 10 M files for SMTP.
WIFI	Fixed the situation that when the country-code=CN or country-code=KR, 802.11ac and channel=0 in Wi-Fi AP mode, the channel would jump to 2.4 GHz.
WIFI	Fixed the situation that when the country-code=US, 802.11ac and channel=0 in Wi-Fi AP mode, the channel would jump to 2.4 GHz.
GENERAL	Fixed the problem of small probability abnormality of ATFWD process.
EC25EFAR08A04M4G_KR_01.001.01.001	
Item	Brief Description
Voice Call	Updated LGU operator requirements to solve VoLTE call problem.
GENERAL	Optimized the problem of slow sending data through SMTP.
EC25EFAR08A03M4G_KR_01.001.01.001	
Item	Brief Description
DTMF	Modified to support sending a maximum of 32 tones at DTMF sending.
HTTPS	Fixed the problem that the module was unstable after receiving RST during HTTPS handshake.
SMS	Solved the problem that the response format was incorrect when an error returned by <b>AT+CMGL=4</b> to read a SMS.
Voice Call	Solved the problem that the previous call number returned by <b>AT+CLIP</b> may be abnormally sometimes.
GENERAL	Solved the problem of CVE-2021-3169.
GENERAL	Modified the attach APN to telstra.internet for NULL.



<b>GENERAL</b>	Set the ROW MBN profile1 to null and profile3 APN name to SOS.
<b>GENERAL</b>	According to STK authentication requirements, modified the MTU value to 1440.
<b>GENERAL</b>	Optimized the selection process of MCFG MBN for the Korean operators.
<b>GENERAL</b>	Optimized <b>AT+QIMSCFG="service_info"</b> , <b>AT+QIMSCFG="user_agent"</b> and <b>AT+QIMSCFG="session_timer"</b> .

#### EC25EFAR08A02M4G\_KR\_01.003.01.003

Item	Brief Description
<b>MQTT</b>	Solved the problem of MQTT connection failure.
<b>NETWORK</b>	Solved the problem that there was no network registration status reported at <b>AT+CFUN=0</b> execution after <b>AT+CREG/+CGREG/+CEREG</b> was set to report network registration status actively.
<b>RMNET</b>	Solved the problem that the module could not receive data after setting up a UDP server after NDIS dialing.
<b>TCP SSL</b>	Added SSL cipher suite, and deleted invalid suite.
<b>TCP SSL</b>	Fixed the problem of system instability caused by the use of ALPN in SSL.
<b>TCP/UDP</b>	Solved the problem that Modem would discard the TCP data packet sent by the server when window scale was 14.
<b>WIFI</b>	URC <b>+WIFIAUTHFAIL</b> was reported when devices connected to the module (work as WIFI AP) with wrong password).
<b>GENERAL</b>	Solved the problem that ERROR was returned by <b>AT+QIMSCFG=?</b> .
<b>GENERAL</b>	Solved the problem that the traffic statistics data obtained by <b>AT+QGDCNT</b> may be inaccurate sometimes.
<b>GENERAL</b>	Updated KT and LGU operator requirements to set sms_retry_limit to 0 and KT IP type to IPV4V6.

#### EC25EFAR08A02M4G\_KR\_01.002.01.002

Item	Brief Description
<b>HTTP</b>	Solved the problem that the module automatically rebooted when <b>AT+QHTTPPOSTFILE</b> sends a POST request to HTTP(S) server through a file larger than 1 M.
<b>TCP/UDP</b>	Solve the problem of abnormal UDP IPV6 address.
<b>GENERAL</b>	Solved the problem that the positioning method returned by <b>AT+QGPSLOC</b> was inconsistent with GPGSA.
<b>GENERAL</b>	Modified 2nd, 3rd, and 4th APN for KT MBN, and updated the KT MBN version to 202106221.
<b>GENERAL</b>	Solved the problem that the delay time of Linux data call was too much after the airplane mode was switched.

EC25EFAR08A02M4G\_KR\_01.001.01.001

Item	Brief Description
AUDIO	Solved the problem of no uac_fs and uac_music returned by <b>AT+QAUDCFG=?</b> .
AUDIO	Solved the problem that it failed to enable the PCM clock output by <b>AT+QCFG="pcmclk",1</b> at booting.
AUDIO	<ol style="list-style-type: none"> <li>Support playing MP3 single-channel and dual-channel files.</li> <li>Optimized the fast switching between <b>AT+QAUDPLAY</b> (to play the audio) and <b>AT+QAUDSTOP</b> (to stop audio play).</li> </ol>
DFOTA	Supported using the fixed baud rate set before upgrade during DFOTA upgrade.
DFOTA	Solved the problem of DFOTA upgrade failure caused by URL containing special characters.
FTP	Improved the operation of FTP related commands; Optimized FTP server compatibility, and supported the certificate encryption function.
FILE	Solved the problem that after the encrypted SFS file uploaded to FTP server was decrypted abnormally.
HTTP	Solved the <b>AT+QHTTPREAD</b> failed to read HTTP(S) server response information.
MQTT	Solved the problem that the MQTT disconnected when receiving the message with QoS level 2 subscribed successfully.
MQTT	Corrected the sever port range returned by <b>AT+QMTOPEN=?</b> to (1-65535).
MQTT	Solved the problem that <b>+QMTSTAT:0,65535</b> may be reported after <b>AT+QMTOPEN</b> execution.
NETWORK	Solved the problem that after the module searched the network successfully, and <b>AT+CREG/AT+CGREG/AT+CEREG</b> set automatically reporting network registration status, there was no network registration status reported after executing <b>AT+CFUN=4,AT+CFUN=1</b> to deactivate network.
PPP	Solved the problem that PPP may disconnect under certain scenarios.
GENERAL	Modified parameter format for AT commands related to base station positioning locator/LBS as <b>AT+QLBSCFG?</b> , <b>AT+QLBSCFG=?</b> and <b>AT+QLBSCFG="token"</b> .
TCP SSL	Improved the stability of the module when TCP SSL was multiplexed at the same time.
TCP SSL	Solved the problem of incorrect data sending status returned by <b>AT+QSSSEND=&lt;clientID&gt;,0</b> .
TCP/UDP	Solved the problem that after TCP connection was established through debug port, incorrect socket connection port was returned by <b>AT+QISTATE</b> . (The connection port should be uart2.)
TCP/UDP	Solved the problem that the context type from IPv4v6 to IPv4 configured by <b>AT+QICSGP</b> did not take effect.
TCP/UDP	Solve the problem of abnormal UDP IPV6 address.

WIFI	Solved the problem that after setting a string SSID via <b>AT+QWSSIDHEX=1</b> , <b>AT+QWSSIDHEX=0</b> could not set a HEX SSID.
WIFI	Solved the problem that IPv6 information could not obtained by <b>AT+QWIFICFG="stainfo"</b> .
WIFI	Fixed WIFI worked as STA connected to AP, but PC using ECM could not connect to the network.
GENERAL	Solved the problem of serial port blocking caused by executing <b>AT+CGACT=1,1</b> to re-activate the first context that was already activated by default.
GENERAL	Optimized <b>AT+QPOWD=0</b> to fast shut down the module.
GENERAL	Solved the problem that the module could not work normally due to executing <b>AT+QACDBREAD</b> to read ACDB files in the AP/modem side.
GENERAL	Optimized the ubi read-write partition mounting and exception handling mechanism.
GENERAL	Supported VoLTE for Smartfren MBN and updated Smartfren MBN version to 'Commercial-Smartfren',0x0501250A,202012291.
GENERAL	Solved the problem that Host could not obtain the IP from MBIM if the network only allocated IP without DNS address.
GENERAL	Solved the problem that an empty menu list was obtained by <b>AT+QSTKGI=37</b> .
GENERAL	Solved the problem of invalid value returned by <b>AT+QCSQ</b> caused by the delay in RSSI reporting.
GENERAL	Updated SE13 TABLE date to 2020/12/21.
GENERAL	Enforced to use USIM as EfImsiName under LGU network.
GENERAL	Solved the problem of getting DRX error when switching from 3G to LTE.
GENERAL	Correct the format of error code returned by <b>AT+QGPSCFG="gnssconfig",8</b> to <b>+CME ERROR: 501</b> .
GENERAL	Updated the VF_Germany_VoLTE MBN version to 202103022, adding two APNs, hos and sos.
GENERAL	Improved Korean certification configurations and updated KT MBN version to 202103061.
GENERAL	Improved Korean certifications and updated the LGU MBN version to 202103101.
GENERAL	Improved Korean certifications; modified the third and fourth APN profile for SKT, and updated SKT MBN version to 202103121.
GENERAL	Not triggered re-search the network by the module under the registered status when <b>AT+QPDPTRYCFG</b> disabled F1-F4 timer.
GENERAL	<ol style="list-style-type: none"> <li>1. When peer IP address length was more than 50 chars, silently truncated the string to 50 chars.</li> <li>2. Not triggered card power-down if EF-DIR read fails.</li> <li>3. Populated file attributes for EST file when card did not return FCP data.</li> <li>4. No SIM E911 call for specific operators should not be blocked.</li> </ol>

GENERAL	Enabled automatically activating MBN through <b>AT+QMBNCFG="AutoSel"</b> .
GENERAL	Updated Telstra-Commercial_VoLTE MBN version to 202105192.
EC25EFAR08A02M4G_01.001.01.001	
Item	Brief Description
AUDIO	Solved the problem that the fail URC could not be reported immediately when the playback was interrupted after executing <b>AT+QLTONE</b> to play the tone repeatedly.
Dual UART	Solved the problem that the configuration of <b>AT+QCFG="urcport/sms",1</b> setting debug port to report SMS URC did not take effect.
FTP	Solve the probabilistic problem of download failure when performing resuming point downloads.
FTP	Solved the problem of occasional failure when uploading files with FTP service.
HTTP	Solved the problem that AT port did not return response after executing <b>AT+QHTTPSTOP</b> during handshaking procedure when connecting to HTTPS server.
HTTP	Solved the problem that the URC <b>+QHTTPURC: "closed"</b> was reported twice unexpectedly after executing <b>AT+QHTTPCFG="closed/ind",1</b> to enable the reporting of HTTP(S) session closing indication.
HTTP	Solved the low probability problem that the GET request would fail after performing HTTP(s) one-way authentication.
HTTP	Solved the problem that 702 error was reported when reading response sent from the server after sending a PUT request in a packet format through the serial port.
MQTT	Corrected the return value of <b>AT+QMTUNS=?</b> from <b>+QMTSUB</b> to <b>+QMTUNS</b> .
QMI	Added <b>AT+QCFG="qti/qmifrag"</b> to solve the problem of QMI call failure in NT98528BG platform.
GENERAL	Solved the problem that APN configured by <b>AT+QLBSCFG="contextid"</b> could not take effect.
WIFI	Changed the default channel of <b>AT+QWMOCH</b> to 0 from 11.
GENERAL	mbim program was started with <b>AT+QCFG="usbnet",2</b> and no longer supported auto-start. The command configurations taken effect after the module was rebooted.
GENERAL	Improved the module stability when loading or unloading MAC driver.
GENERAL	Changed the default status of downlink rate of thermal mitigation algorithm to on.
GENERAL	Solved the problem that the ACDB file would be lost when executing <b>AT+QACDBLOAD</b> to import more than 5 ACDB files.
GENERAL	Enabled Tuner configurations.
GENERAL	Changed the mapping relations among hardware PIN143,144 and GPIO52,53.
GENERAL	Solved the problem that modem part of the module kept restarting when activating Smartfren MBN.

<b>GENERAL</b>	Optimized jamming detection algorithm in GSM mode.
<b>GENERAL</b>	Optimized interference protection features under WCDMA by adding anti-jitter feature.
<b>GENERAL</b>	Solved the problem that jammed was reported unexpectedly under the premise of weak signal or setting the rejection reason value when the interference protection feature was not turned on.

EC25EFAR08A01M4G\_01.001.01.001

Item	Brief Description
/	/

### 3.4. Known Issues

Item	Bug Description
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#### NOTE

Verification Environment is shown below. For more details, please contact Quectel Technical Support.

For Windows,

USB Driver: Quectel\_LTE\_Windows\_USB\_Driver\_V2.2.4

Qflash Tool: QFlash\_V7.0

For Linux,

QFirehose Tool : QFirehose\_Linux\_Android\_V1.4.21

USB Driver: Quectel\_Linux\_USB\_Serial\_Option\_Driver\_20220622

Quectel-CM Tool: Quectel\_QConnectManager\_Linux\_V1.6.6

QLog Tool: Quectel\_QLog\_Linux&Android\_V1.5.22

QMI\_WWAN Driver: Quectel\_Linux&Android\_QMI\_WWAN\_Driver\_V1.2.7

GobiNet Driver: Quectel\_Linux&Android\_GobiNet\_Driver\_V1.6.5

## 4. Functions List

Category	Item	Supported Version (Since)	Note
Basic Function	SMS	EC25EFAR08A01M4G_01.001.01.001	/
	Voice Call	EC25EFAR08A01M4G_01.001.01.001	/
	Data Call	/	Not supported currently.
	FAX	/	Not supported currently.
	USSD	/	Not supported currently.
	PHB	EC25EFAR08A01M4G_01.001.01.001	/
	STK	/	Not supported currently.
	CMUX	EC25EFAR08A01M4G_01.001.01.001	/
Protocol Function	FILE	EC25EFAR08A01M4G_01.001.01.001	Supports RAM FILE only.
	QMI	EC25EFAR08A01M4G_01.001.01.001	/
	TCP/UDP	EC25EFAR08A01M4G_01.001.01.001	/
	PPP	EC25EFAR08A01M4G_01.001.01.001	/
	FTP	EC25EFAR08A01M4G_01.001.01.001	/
	HTTP	EC25EFAR08A01M4G_01.001.01.001	/
	NITZ	EC25EFAR08A01M4G_01.001.01.001	/
	NTP	EC25EFAR08A01M4G_01.001.01.001	/
	TCP SSL	EC25EFAR08A01M4G_01.001.01.001	/
	MQTT	EC25EFAR08A01M4G_01.001.01.001	/
	MMS	EC25EFAR08A01M4G_01.001.01.001	Supports MMS sending only.
	SMTP	EC25EFAR08A01M4G_01.001.01.001	/
	PING	EC25EFAR08A01M4G_01.001.01.001	/
	SMTPS	EC25EFAR08A01M4G_01.001.01.001	/

	HTTPS	EC25EFAR08A01M4G_01.001.01.001	/
	SIM Detection	EC25EFAR08A01M4G_01.001.01.001	/
	DFOTA	EC25EFAR08A01M4G_01.001.01.001	/
	ECM	EC25EFAR08A01M4G_01.001.01.001	/
	LowPower	EC25EFAR08A01M4G_01.001.01.001	/
	RMNET	EC25EFAR08A01M4G_01.001.01.001	/
Special Function	DTMF	EC25EFAR08A01M4G_01.001.01.001	Supports DTMF decoding only.
	Dual UART	EC25EFAR08A01M4G_01.001.01.001	/
	RNDIS	EC25EFAR08A01M4G_01.001.01.001	/
	UAC	EC25EFAR08A01M4G_01.001.01.001	/
	SD	EC25EFAR08A01M4G_01.001.01.001	/
	WIFI	EC25EFAR08A01M4G_01.001.01.001	/
	BT	EC25EFAR08A01M4G_01.001.01.001	Supports SPP, BLE and HFG.

## About Quectel

Quectel's passion for a smarter world drives us to accelerate IoT innovation. As a highly customer-centric organization, we are a global IoT solution provider backed by outstanding support and services. Our growing global team of 5,900 professionals sets the pace for innovation in cellular, automotive, smart, GNSS, satellite, Wi-Fi and Bluetooth modules as well as antennas and services.

With regional offices and support across the globe, our international leadership is devoted to advancing IoT and building a smarter world.

