



# Telit IoT Modules

## Product Overview & Roadmap

July 2017



# Industry's Broadest Portfolio of IoT Modules



**IoT** MODULES



**CELLULAR** | 4G, LTE, 3G and 2G



**POSITIONING & TIMING** | GPS & GNSS



**SHORT RANGE WIRELESS**  
Bluetooth & NFC, Wi-Fi, M-Bus, ZigBee, Sub-1GHz

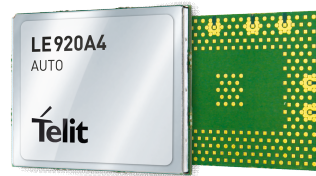


**LPWA**

# IoT Module Form Factors



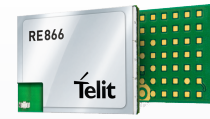
**xE910**  
(28x28mm)



**xE920/922 – xE940**  
(34x40mm, 40x40mm - nested)



**xL865**  
(24x24mm)



**xE866**  
(25x15, 19x15, 17x10mm – nested )



**M.2**  
(30x42mm)



**mPCIe**  
(30x51mm)

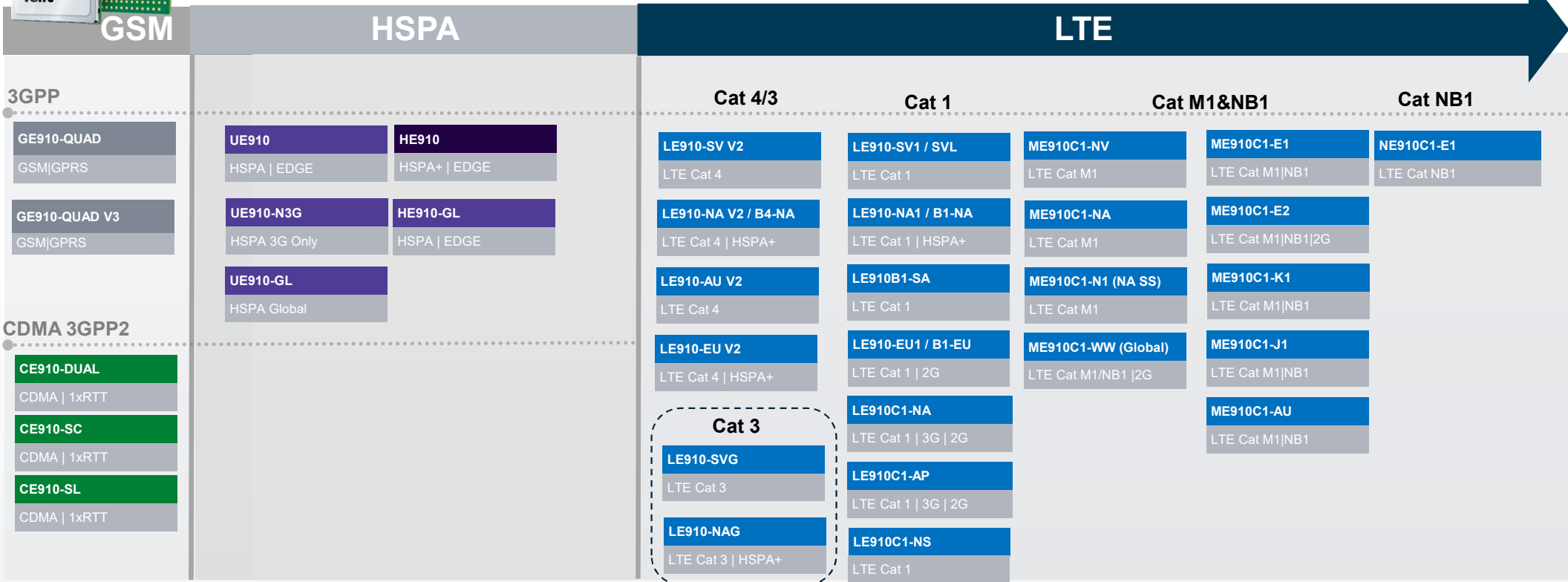
# xE910 Family

Confidential & Proprietary





# xE910 Family (28x28mm)

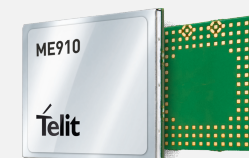


# ME910C1 Overview

LTE Cat. M1/NB1

## Specifications

<b>Form Factor</b>	xE910 LGA 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	APPZONE
<b>Region(s)</b>	NA / EMEA / ANZ / Korea / Japan	<b>Memory (available for integrators)</b>	TBD
<b>Operator(s) / Bands</b>	Verizon, AT&T, EMEA, Others	<b>Drivers Support</b>	Windows, Linux, Android
<b>Interfaces</b>	Integrated: USB 2.0 HS, UART, SPI, I <sup>2</sup> C, 1.8 / 3 V SIM Interface	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP, SSL	<b>DM</b>	LWM2M
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	Telit IoT Portal
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	YES	<b>Approvals</b>	FCC/IC, GCF, RED PTCRB, AT&T, Verizon



### Key Benefits:

- 3GPP Rel. 13 Cat. M1/NB1 evolution in the Telit xE910 family
- Optimized power consumption for long battery life
- Enhanced coverage for better reach in deep indoor environments
- Ideal migration path away from 2G and highly recommended for new designs

### Applications:

Perfect platform for regional IoT applications such as smart metering, security & surveillance, point of sale, health monitoring, fleet management, asset tracking and wearable devices

### Availability:

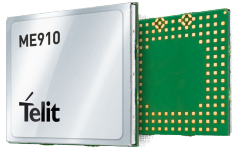
Sample available

### Link:

[ME910C1 SERIES](#)

# ME910C1 Roadmap

LTE



**ME910 Series**  
Embedded

**ME910C1-NV (Verizon, NA)**

Cat M1 - B13, B4 – GNSS optional

4G

**ME910C1-NA (AT&T, NA)**

Cat M1 - B12, B4, B2 – GNSS optional

4G

**ME910C1-N1 (NA – Single SKU)**

Cat M1/NB1 – B12, B13, B4, B2, – GNSS optional

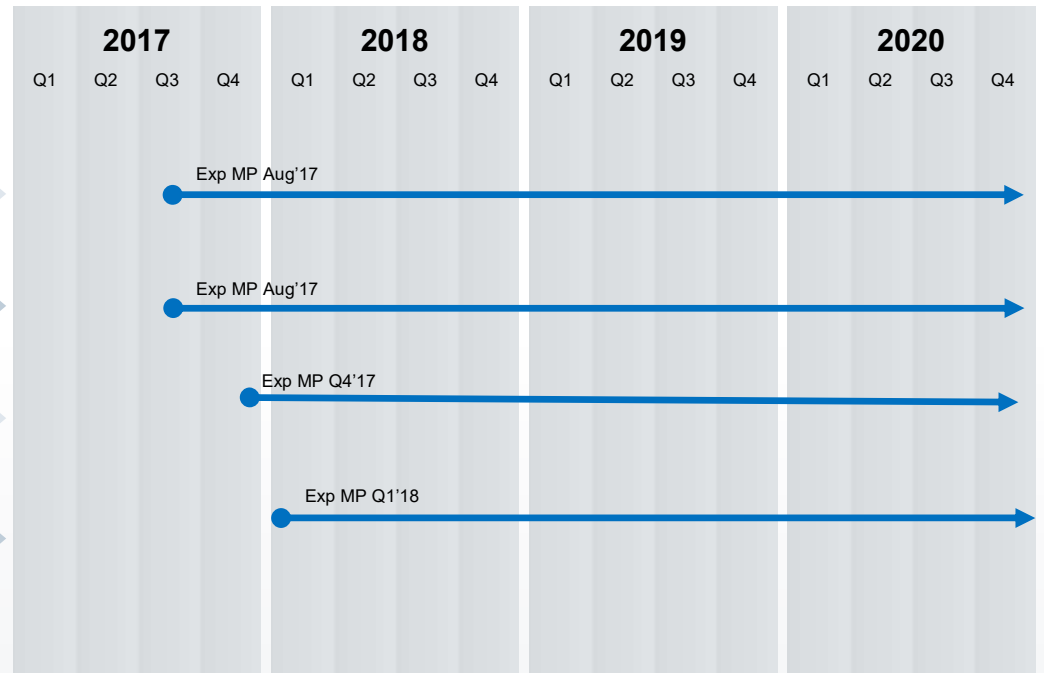
4G

**ME910C1-WW (Global)**

Cat M1/NB1 - B1, B2, B3, B4, B5, B8, B12/B17, B13, B17, B18, B19, B20, B26, B28, B39  
2G: quad band  
GNSS optional

2G

4G



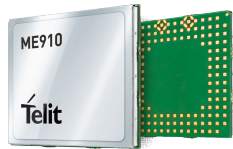
▲ MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

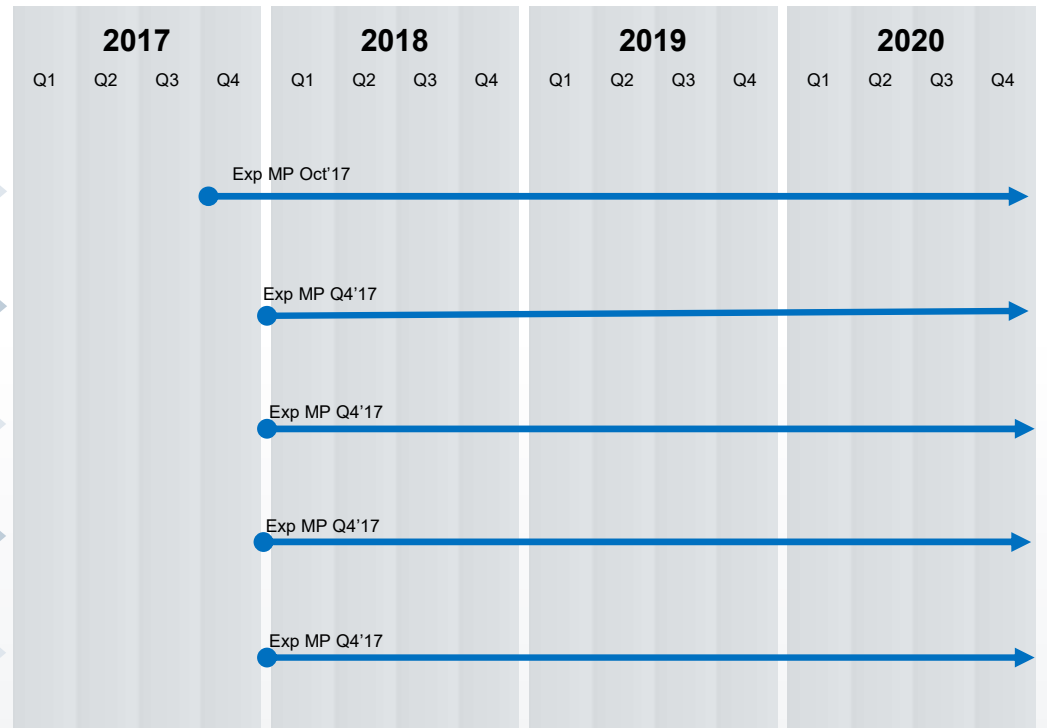
# ME910C1 Roadmap

LTE



**ME910 Series**  
Embedded

<b>ME910C1-E1 (EMEA)</b> Cat M1/NB1 – B20, B8, B3 optional GNSS	4G
<b>ME910C1-E2 (EMEA)</b> Cat M1/NB1 – B20, B8, B3 2G Fallback optional GNSS	2G 4G
<b>ME910C1-K1 (Korea)</b> Cat M1/NB1 - B3, B5, B8 GNSS optional	4G
<b>ME910C1-J1 (Japan)</b> Cat M1/NB1 - B1, B8, B18, B19, B26 GNSS optional	4G
<b>ME910C1-AU (Australia/NZ)</b> Cat M1/NB1 - B3, B5, B8, B28 GNSS optional	4G



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IN PRODUCTION

IN DEVELOPMENT

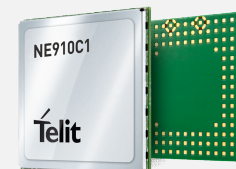


# NE910C1 Overview

LTE Cat. NB1

## Specifications

<b>Form Factor</b>	xE910 LGA 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	APPZONE
<b>Region(s)</b>	EMEA	<b>Memory (available for integrators)</b>	TBD
<b>Operator(s) / Bands</b>	Vodafone, DTAG, TIM	<b>Drivers Support</b>	Windows, Linux, Android
<b>Interfaces</b>	Integrated: USB 2.0 HS, UART, SPI, I <sup>2</sup> C, 1.8 / 3 V SIM Interface	<b>FOTA</b>	Yes
<b>Software Features</b>	PSM, eDRX	<b>DM</b>	LWM2M
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	Telit IoT Portal
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	No	<b>Approvals</b>	RED, GCF



## Key Benefits:

- Dedicated NB-IoT solution
- Instant drop-in replacement for 2G migration
- Scalable platform simplifies roadmap
- Optimized power consumption for long battery life

## Applications:

Ideal for low data rate fixed-wireless applications such as utility metering, home and commercial security and situations with limited in-region mobility such as POS and logistics terminals.

## Availability:

Sample Q3 2017

## Link:

[NE910C1 SERIES](#)

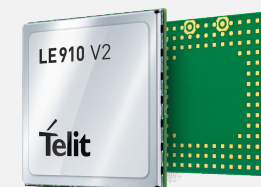


# LE910 V2 Overview

LTE Cat 4 150/50 Mbps | DC-HSPA+ 42.0/5.76 | GSM|GPRS

## Specifications

<b>Form Factor</b>	xE910 144-pin LGA Interface 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	AppZone
<b>Region(s)</b>	EMEA, NA, Australia	<b>Memory (available for integrators)</b>	5MB Flash, 16MB RAM
<b>Operator(s) / Bands</b>	Verizon, AT&T, T-Mobile, Telstra	<b>Drivers Support</b>	Win, Android, Linux
<b>Interfaces</b>	Integrated: USB 2.0; UART, GPIOs	<b>FOTA</b>	Yes
<b>Software Features</b>	Dual Stack IPV4/IPV6, Embedded TCP/IP, SSL, BIP	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	deviceWISE
<b>Power Consumption</b>	2-6 mA Idle 200-600 mA Tx	<b>GNSS</b>	No
<b>Voice</b>	CS, VoLTE	<b>Certifications &amp; Approvals</b>	FCC/IC, PTCRB/GCF RCM, R&TTE/ GCF



### Key Benefits:

- Optimized connectivity (MIMO/RX diversity)
- Integrated TCP/IP; UDP/IP stacks

### Applications:

IoT applications and mobile data and computing devices with ultra-compact design

### Availability:

Now

### Link:

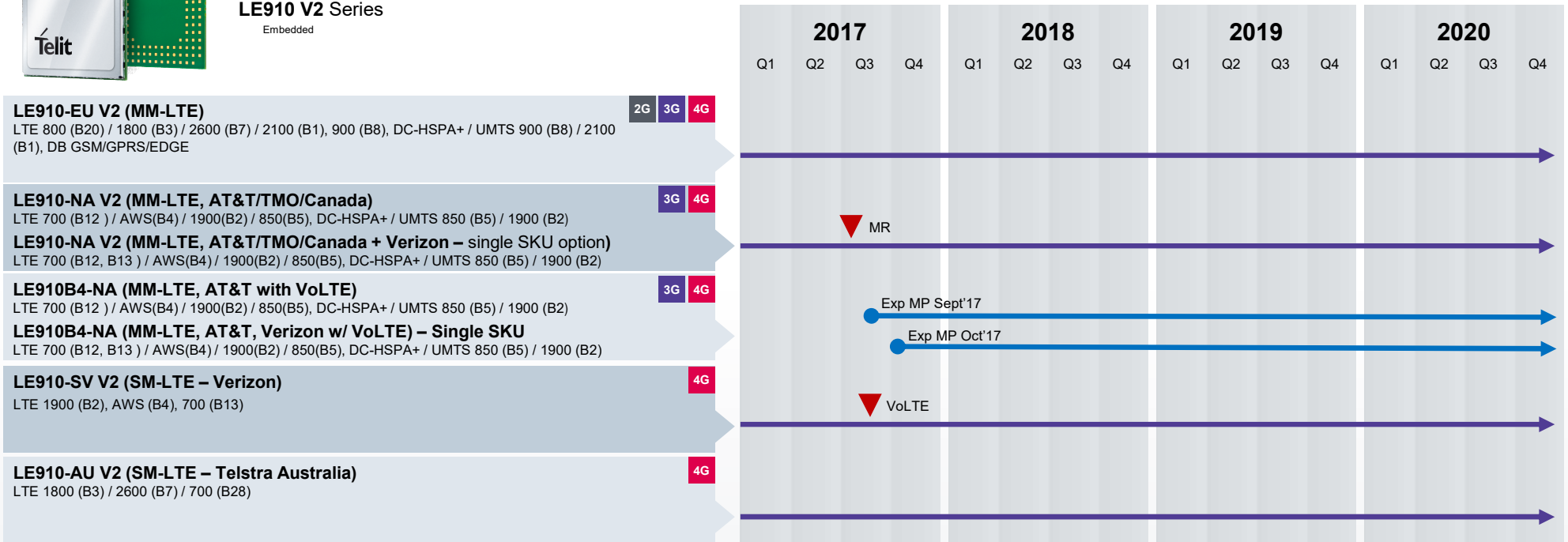
[LE910-V2 SERIES](#)

# LE910 V2 Roadmap



**LE910 V2 Series**  
Embedded

UMTS | HSPA | LTE



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IN PRODUCTION IN DEVELOPMENT

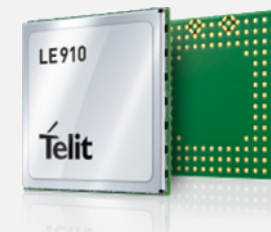


# LE910 Cat1 Overview

LTE Cat.1 10/5 Mbps | DC-HSPA+ 42.0/5.76 | GSM|GPRS

## Specifications

<b>Form Factor</b>	xE910 144-pin LGA Interface 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	AppZone
<b>Region(s)</b>	EMEA, NA, Japan	<b>Memory (available for integrators)</b>	5MB Flash, 16MB RAM
<b>Operator(s) / Bands</b>	AT&T, T-Mobile, Verizon, NTT DoCoMo	<b>Drivers Support</b>	Win, Android, Linux
<b>Interfaces</b>	USB 2.0; UART, GPIOs	<b>FOTA</b>	Yes
<b>Software Features</b>	Dual Stack IPV4/IPV6, Embedded TCP/IP, SSL, BIP	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud (IoT Portal?)</b>	deviceWISE
<b>Power Consumption</b>	2-6 mA Idle 200-600 mA Tx	<b>GNSS</b>	No
<b>Voice</b>	CS, VoLTE	<b>Certifications &amp; Approvals</b>	R&TTE/GCF FCC/IC, PTCRB, GCF Radio/Telecom Biz Act



### Key Benefits:

- Optimized connectivity (MIMO/RX diversity)
- Integrated TCP/IP; UDP/IP stacks

### Applications:

IoT applications and mobile data and computing devices with ultra-compact design

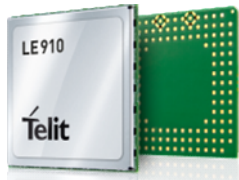
### Availability:

Now

### Link:

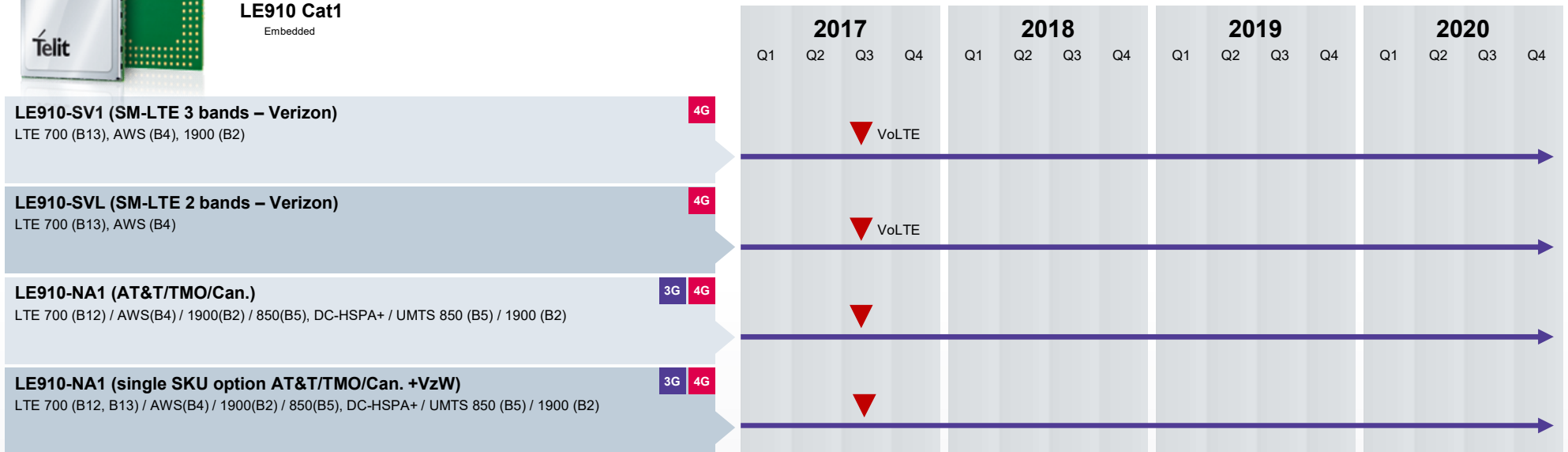
[LE910 Cat1 SERIES](#)

# LE910 Cat1 Roadmap 1/3



**LE910 Cat1**  
Embedded

UMTS | HSDPA | HSPA | LTE

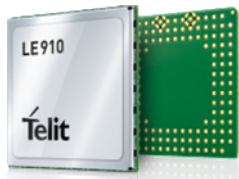


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IN PRODUCTION

IN DEVELOPMENT

# LE910 Cat1 Roadmap 2/3



**LE910 Cat1**  
Embedded

UMTS | HSDPA | HSPA | LTE

**LE910B1-NA (MM-LTE, AT&T/TMO/Can. VoLTE)**

LTE 700 (B12) / AWS(B4) / 1900(B2) / 850(B5), DC-HSPA+ / UMTS 850 (B5) / 1900 (B2)

3G 4G

**LE910B1-NA (single SKU option AT&T/TMO/Can. + VzW VoLTE)**

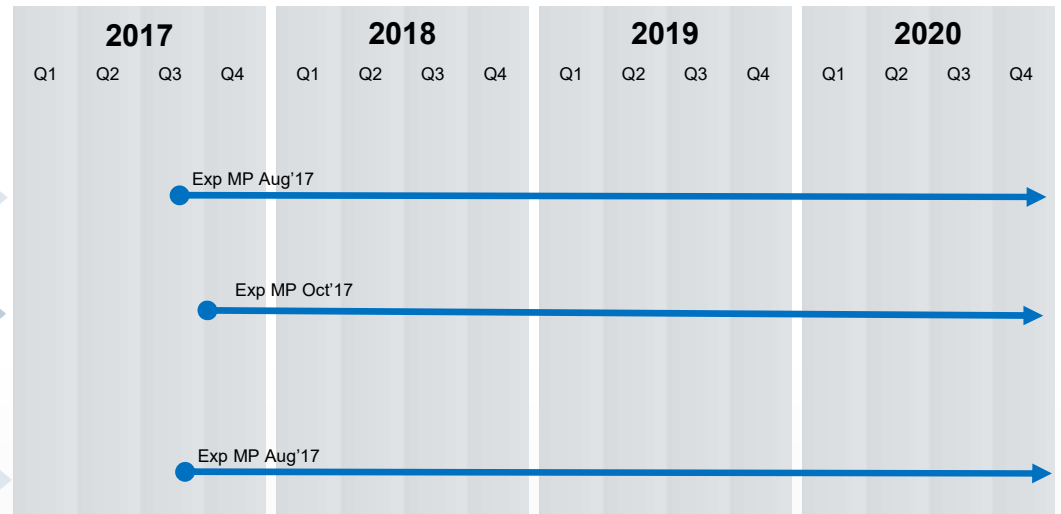
LTE 700 (B12, B13) / AWS(B4) / 1900(B2) / 850(B5), DC-HSPA+ / UMTS 850 (B5) / 1900 (B2))

3G 4G

**LE910B1-SA (SM-LTE, AT&T/TMO/Can., VoLTE)**

LTE 700 (B12) / AWS(B4) / 1900(B2)

4G



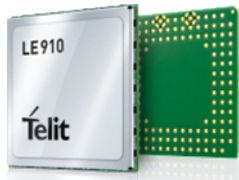
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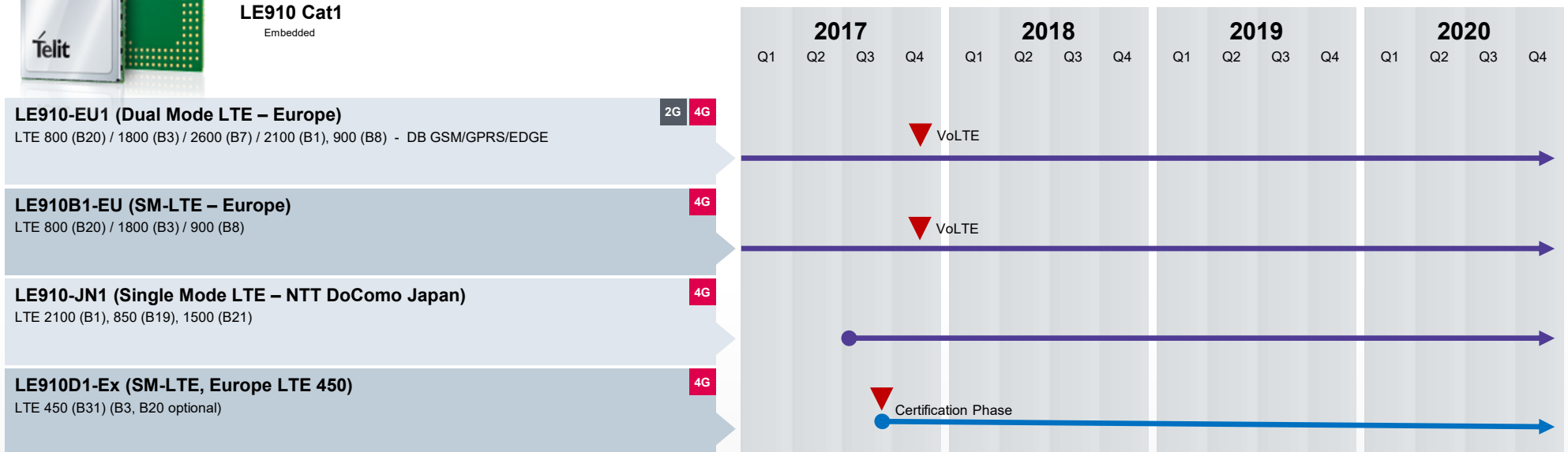
IN DEVELOPMENT

# LE910 Cat1 Roadmap 3/3

UMTS | HSDPA | HSPA | LTE



**LE910 Cat1**  
Embedded



MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

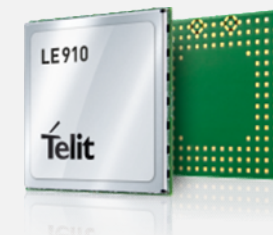


# LE910C1 Overview

LTE Cat.1 10/5 Mbps

## Specifications

<b>Form Factor</b>	xE910 181-pin LGA Interface 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	N/A
<b>Region(s)</b>	EMEA, NA, Australia	<b>Memory (available for integrators)</b>	N/A
<b>Operator(s) / Bands</b>	AT&T and global roaming, Telstra, Sprint	<b>Drivers Support</b>	Win, Linux, Android
<b>Interfaces</b>	USB 2.0 HS/ HSIC, UART, SPI, PCM	<b>FOTA</b>	Yes
<b>Software Features</b>	Dual Stack IPV4/IPV6, Embedded TCP/IP, SSL, BIP	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud (IoT Portal?)</b>	deviceWISE
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	DVI / VoLTE	<b>Certifications &amp; Approvals</b>	FCC/IC, PTCRB RCM



### Key Benefits:

- MTC features ready according to 3GPP Rel.12
- Integrated TCP/IP; UDP/IP stacks
- VoLTE
- Integrated GNSS

### Applications:

IoT applications and mobile data and computing devices with ultra-compact design

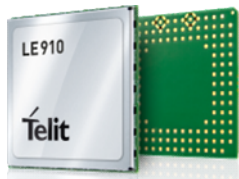
### Availability:

Now

### Link:

[LE910C1 SERIES](#)

# LE910C1 Roadmap



**LE910 Cx Series**  
Embedded

UMTS | HSDPA | HSPA | LTE

## LE910C1-NA (Multi Mode LTE – AT&T, w/ global roaming 3G/2G)

LTE 700 (B12), AWS (B4), 1900 (B2)  
DC-HSPA+ / HSPA / UMTS 850(B5), 900(B8), AWS1700 (B4), 1900 (B2), 2100 (B1)  
GSM/GPRS quad band  
gpsOne

2G 3G 4G

## LE910C1-AP (Multi Mode LTE – APAC/ANZ)

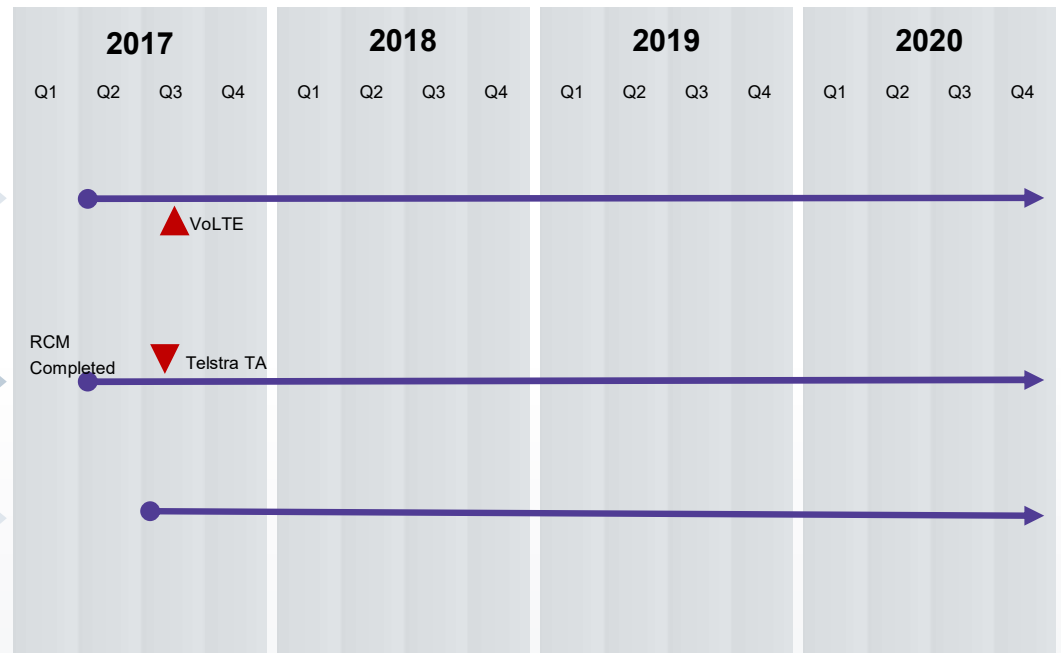
FDD-LTE 700 ( B28), 850 (B5), 900 (B8), 1800 ( B3), 2100 (B1)  
DC-HSPA+ / HSPA / UMTS 850(B5), 900(B8), 2100 (B1)  
gpsOne

3G 4G

## LE910C1-NS (Single Mode LTE – Sprint)

FDD-LTE 700 (B12), 850 (B5, B26), 1900 (B2, B25), AWS1700 (B4) )  
gpsOne

4G



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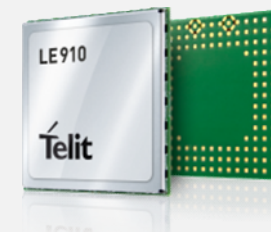
IN DEVELOPMENT

# LE910C4 Overview

LTE Cat.4 150/50 Mbps

## Specifications

<b>Form Factor</b>	xE910 181-pin LGA Interface 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	None
<b>Region(s)</b>	AT&T / Firstnet	<b>Memory (available for integrators)</b>	
<b>Operator(s) / Bands</b>	AT&T / Firstnet	<b>Drivers Support</b>	Win, Linux, Android
<b>Interfaces</b>	USB 2.0 HS/ HSIC, UART, SPI, PCM	<b>FOTA</b>	Yes
<b>Software Features</b>	Dual Stack IPV4/IPV6, Embedded TCP/IP, SSL, BIP	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud (IoT Portal?)</b>	deviceWISE
<b>Power Consumption</b>	3.8 VDC	<b>GNSS</b>	Yes (tbd)
<b>Voice</b>	Optional	<b>Certifications &amp; Approvals</b>	FCC/IC, PTCRB RCM



### Key Benefits:

- MTC features ready according to 3GPP Rel.12
- Integrated TCP/IP; UDP/IP stacks
- VoLTE
- Integrated GNSS

### Applications:

IoT applications and mobile data and computing devices with ultra-compact design

### Availability:

Now

### Link:

[LE910C1 SERIES](#)

# LE910C4 Roadmap



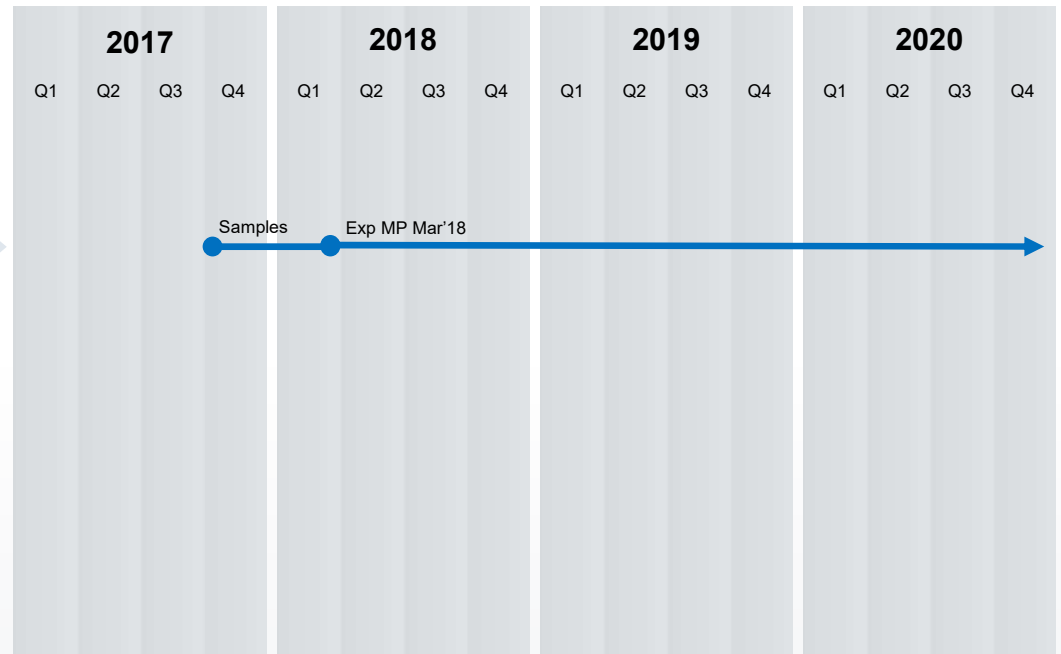
**LE910 Cx Series**  
Embedded

UMTS | HSDPA | HSPA | LTE

**LE910C4-NF (Multi Mode LTE – AT&T/ FirstNet w/ 3G fallback)**

LTE 700 (B12, B14), AWS (B4), 1900 (B2)  
DC-HSPA+ / HSPA / UMTS 850(B5), 1900 (B2)  
gpsOne

3G 4G



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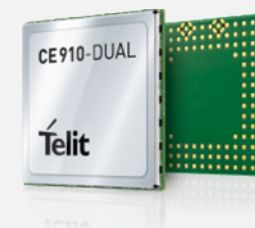
IN DEVELOPMENT

# CE910 Overview

CDMA 1xRTT

## Specifications

<b>Form Factor</b>	xE910 144-pin LGA Interface 28.2 x 28.2 x 2 mm	<b>Application Development Environment</b>	Python
<b>Region(s)</b>	North America China EMEA	<b>Memory (available for integrators)</b>	2MB RAM / 2MB Flash
<b>Operator(s) / Bands</b>	Verizon, Sprint, Aeris, US Cellular China Telecom Utility Connect	<b>Drivers Support</b>	USB WinCE & Desktop USB Linux CMUX WinCE RIL WinCE
<b>Interfaces</b>	USB 2.0 HS + 2 UARTs, 10 I/O ports	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP, SSL	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud (IoT Portal?)</b>	deviceWISE
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	No
<b>Voice</b>	YES	<b>Approvals</b>	FCC/IC, CCF57 Level 2 CDMA, CE, RoHS



### Key Benefits:

- Design once and deploy globally with xE910 FF
- Approved by all major US CDMA carriers
- Analog and digital audio

### Applications:

Telemetry, telematics, smart metering and healthcare

### Availability:

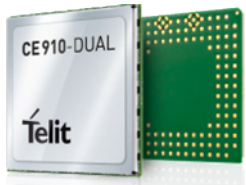
Now

### Link:

[CE910 SERIES](#)

# CE910 Roadmap

CDMA | 1xRTT



**CE910**  
Embedded

**CE910-DUAL**  
(800/1900 MHz CDMA 1xRTT) Verizon/Sprint/Aeris NA mkt

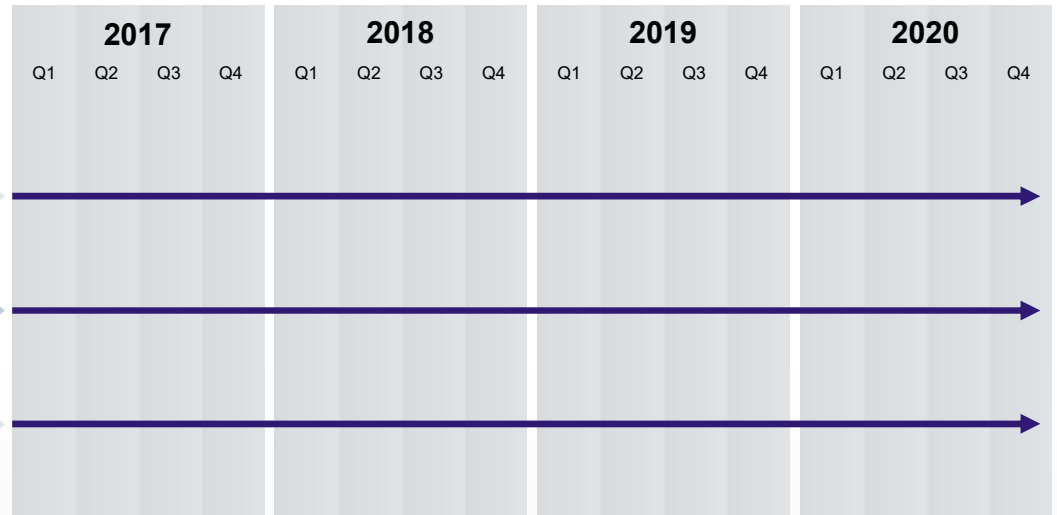
2G

**CE910-SC**  
(800 MHz CDMA 1xRTT, R-UIM) China/India mkt

2G

**CE910-SL**  
(CDMA 450 MHz) EMEA

2G



MAINTENANCE RELEASE

IN PRODUCTION

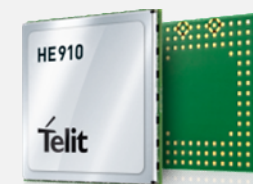
IN DEVELOPMENT

# HE910 Overview

UMTS | HSPA+ 21.0/5.76

## Specifications

<b>Form Factor</b>	xE910 144-pin LGA Interface 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	AppZone
<b>Region(s)</b>	EMEA, NA, LA, APAC Korea, Australia	<b>Memory (available for integrators)</b>	Data (Flash): 5 MB, Applications (RAM): 2 MB
<b>Operator(s) / Bands</b>	UMTS 800/850/900/AWS/1900/2100 (Global) UMTS 800/850/900/2100(EU) UMTS 800/850/AWS/1900(NA) GSM 800/900/1800/1900	<b>Drivers Support</b>	USB WinCE & Desktop USB Linux, Android CMUX WinCE RIL WinCE
<b>Interfaces</b>	10 I/O ports, USB 2.0 HS, SPI, I2S	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP Stack, Jamming Detection, Event Monitor, IoT Locate	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud</b>	deviceWISE
<b>Power Consumption</b>	SWITCHED OFF: 40uA IDLE mode (WCDMA):12.2mA Operative mode (WCDMA HSDPA (22dBm)): 494mA	<b>GNSS</b>	Yes
<b>Voice</b>	Yes	<b>Approvals</b>	FCC/IC, CCF57 Level 2 CDMA, RoHS



### Key Benefits:

- IoT Locate
- Jamming detection
- FUMO

### Applications:

Fleet management and global asset tracking asset & fleet tracking, in-car, telematics, PDAs, security surveillance, personal navigation devices, e-readers and consumer electronics in general.

### Availability:

Now

### Link:

[HE910 SERIES](#)

# HE910 Cat1 Roadmap



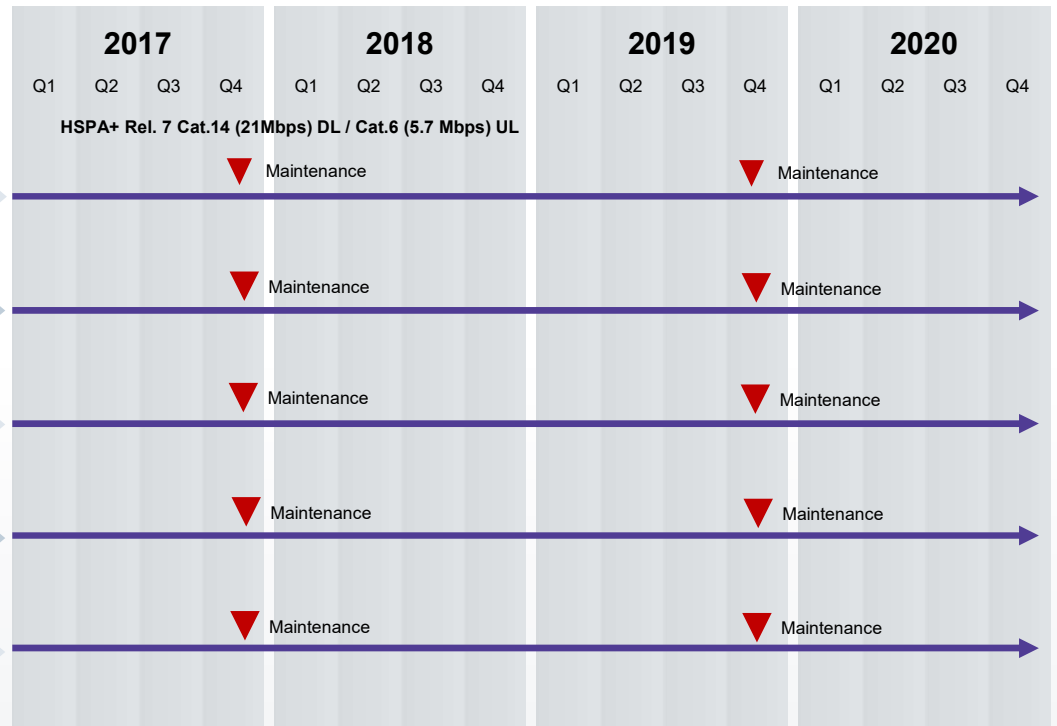
**HE910**  
Embedded

UMTS | HSPA | HSPA+

Model	2G	3G
<b>HE910-G</b> (850/900/1800/1900 EDGE + 850/900/AWS1700/1900/2100 HSPA+, A-GPS, RX div)	IN PRODUCTION	IN DEVELOPMENT
<b>HE910-D</b> (850/900/1800/1900 EDGE + 850/900/AWS1700/1900/2100 HSPA+, RX div, data only)	IN PRODUCTION	IN DEVELOPMENT
<b>HE910-GL</b> (850/900/1800/1900 EDGE + 850/900/AWS1700/1900/2100 HSPA, no RX div, no GPS)	IN PRODUCTION	IN DEVELOPMENT
<b>HE910-EUD / -EUR / -EUG</b> (850/900/1800/1900 EDGE + 850/900/2100 HSPA)	IN PRODUCTION	IN DEVELOPMENT
<b>HE910-NAD / -NAR / -NAG</b> (850/900/1800/1900 EDGE + 850/AWS/1900 HSPA)	IN PRODUCTION	IN DEVELOPMENT

▲▼ MAINTENANCE RELEASE

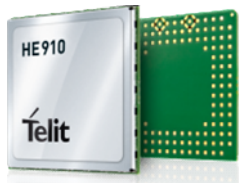
IN PRODUCTION      IN DEVELOPMENT





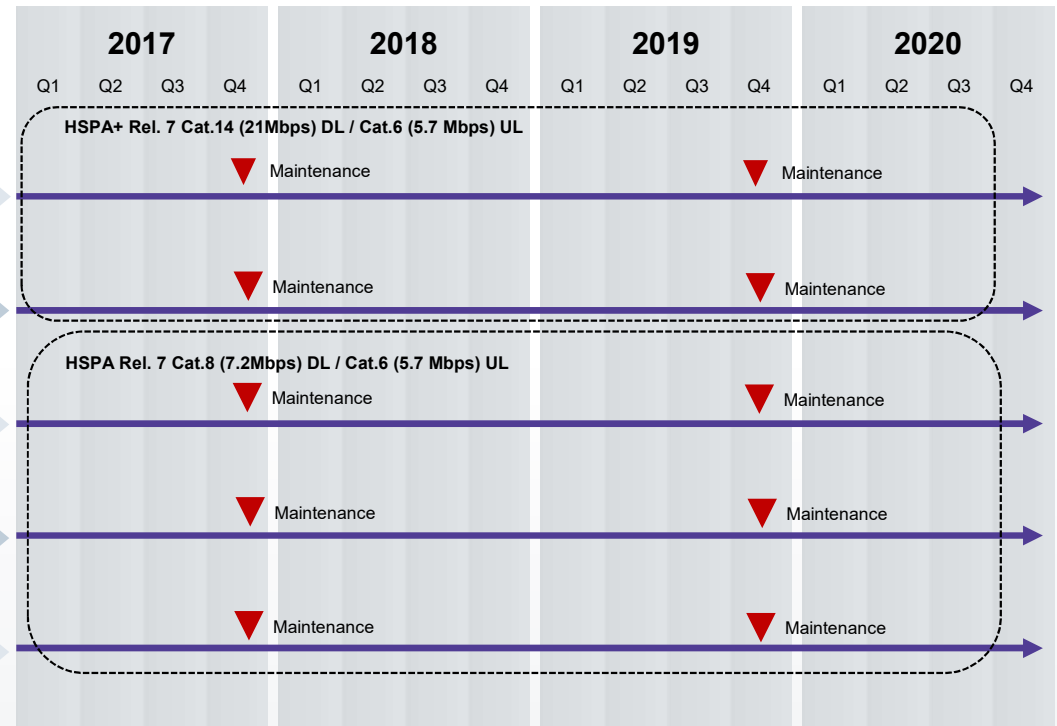
# HE910 Cat1 Roadmap

UMTS | HSPA | HSPA+



**HE910**  
Embedded

<b>HE910-G</b> (850/900/1800/1900 EDGE + 850/900/AWS1700/1900/2100 HSPA+, A-GPS, RX div)	2G 3G
<b>HE910-D</b> (850/900/1800/1900 EDGE + 850/900/AWS1700/1900/2100 HSPA+, RX div, data only)	2G 3G
<b>HE910-GL</b> (850/900/1800/1900 EDGE + 850/900/AWS1700/1900/2100 HSPA, no RX div, no GPS)	2G 3G
<b>HE910-EUD / -EUR / -EUG</b> (850/900/1800/1900 EDGE + 850/900/2100 HSPA)	2G 3G
<b>HE910-NAD / -NAR / -NAG</b> (850/900/1800/1900 EDGE + 850/AWS/1900 HSPA)	2G 3G



▲▼ MAINTENANCE RELEASE

IN PRODUCTION      IN DEVELOPMENT

# UE910 Overview

UMTS | HSPA 5.76/7.2

## Specifications

<b>Form Factor</b>	xE910 144-pin LGA Interface 28.2 x 28.2 x 2.2 mm	<b>Application Development Environment</b>	AppZone
<b>Region(s)</b>	EMEA, NA, LA, APAC Korea, Australia	<b>Memory (available for integrators)</b>	Data (Flash): 5 MB, Applications (RAM): 2 MB
<b>Operator(s) / Bands</b>	UMTS 850/1900 (NA) UMTS 900/2100 (EU) GSM 850/1900 (NA) GSM 900/1800 (EU)	<b>Drivers Support</b>	USB WinCE & Desktop USB Linux, Android CMUX WinCE RIL WinCE
<b>Interfaces</b>	USB 2.0 HS, HSIC, 2 UART, SPI	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP Stack, Jamming Detection, Event Monitor, IoT Locate	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud</b>	deviceWISE
<b>Power Consumption</b>	SWITCHED OFF: 180uA IDLE mode (WCDMA): 12.2mA Operative mode (WCDMA HSDPA (22dBm)): 494mA	<b>GNSS</b>	No
<b>Voice</b>	Yes	<b>Approvals</b>	RoHS, CE, GCF, FCC, PTCRB, IC



### Key Benefits:

- IoT Locate
- TSM

### Applications:

Utility metering, and home and commercial security

### Availability:

Now

### Link:

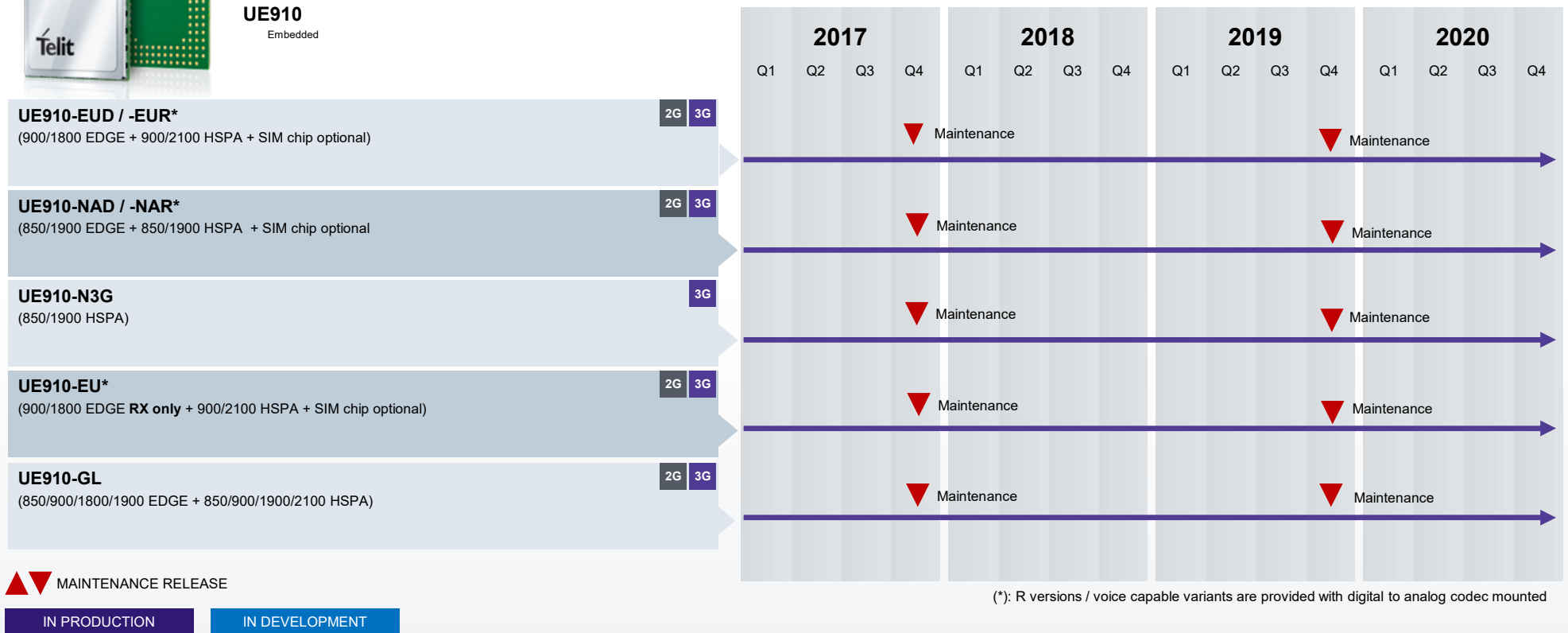
[UE910 SERIES](#)

# UE910 Roadmap



**UE910**  
Embedded

UMTS | HSPA | HSPA+



# GE910 Overview

GSM | GPRS

## Specifications

<b>Form Factor</b>	xE910 144-pin LGA Interface	<b>Application Development Environment</b>	AppZone C
<b>Region(s)</b>	EMEA, NA, LA, APAC, Australia	<b>Memory (available for integrators)</b>	2MB RAM / 5MB Flash
<b>Operator(s) / Bands</b>	Quad-Band	<b>Drivers Support</b>	USB WinCE & Desktop USB Linux, Android CMUX WinCE RIL WinCE
<b>Interfaces</b>	10 I/O ports, USB 2.0 FS Analog and digital audio 2 UARTs	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP, SSL, Jamming Detection	<b>DM</b>	-
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud</b>	deviceWISE
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	Yes	<b>Approvals</b>	CE, GCF, FCC, PTCRB, IC



## Key Benefits:

- Design once and deploy globally with xE910 FF
- Complete SMT platform for M2M solutions running the customer application inside the module
- Easy-to-bundle with Telit's GPS or GPS|GLONASS receivers for applications requiring location awareness such as fleet management and track-and-tracing

## Applications:

Ideal for applications in security alarm systems, automated meter reading and POS terminals

## Availability:

Now

## Link:

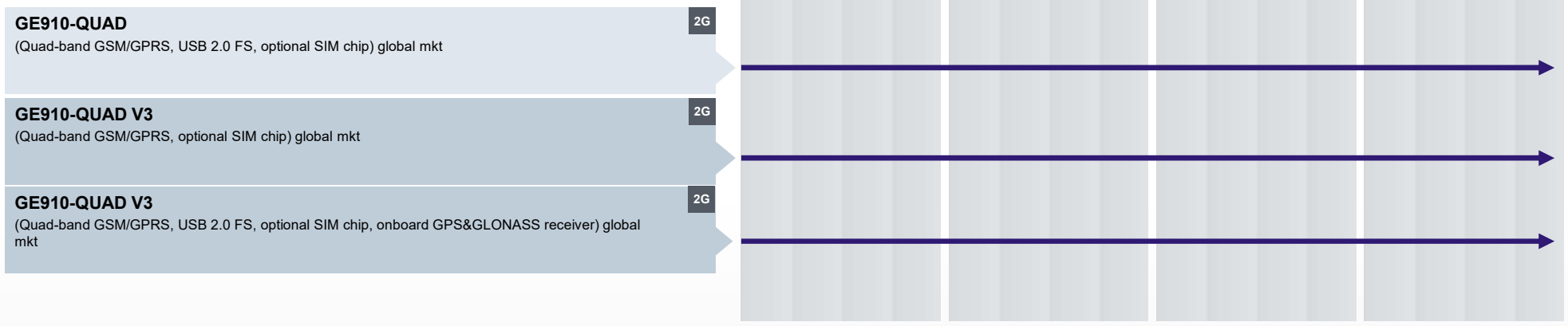
[GE910 Series](#)

# GE910 Roadmap

GSM|GPRS



**GE910**  
Embedded



MAINTENANCE RELEASE

IN PRODUCTION

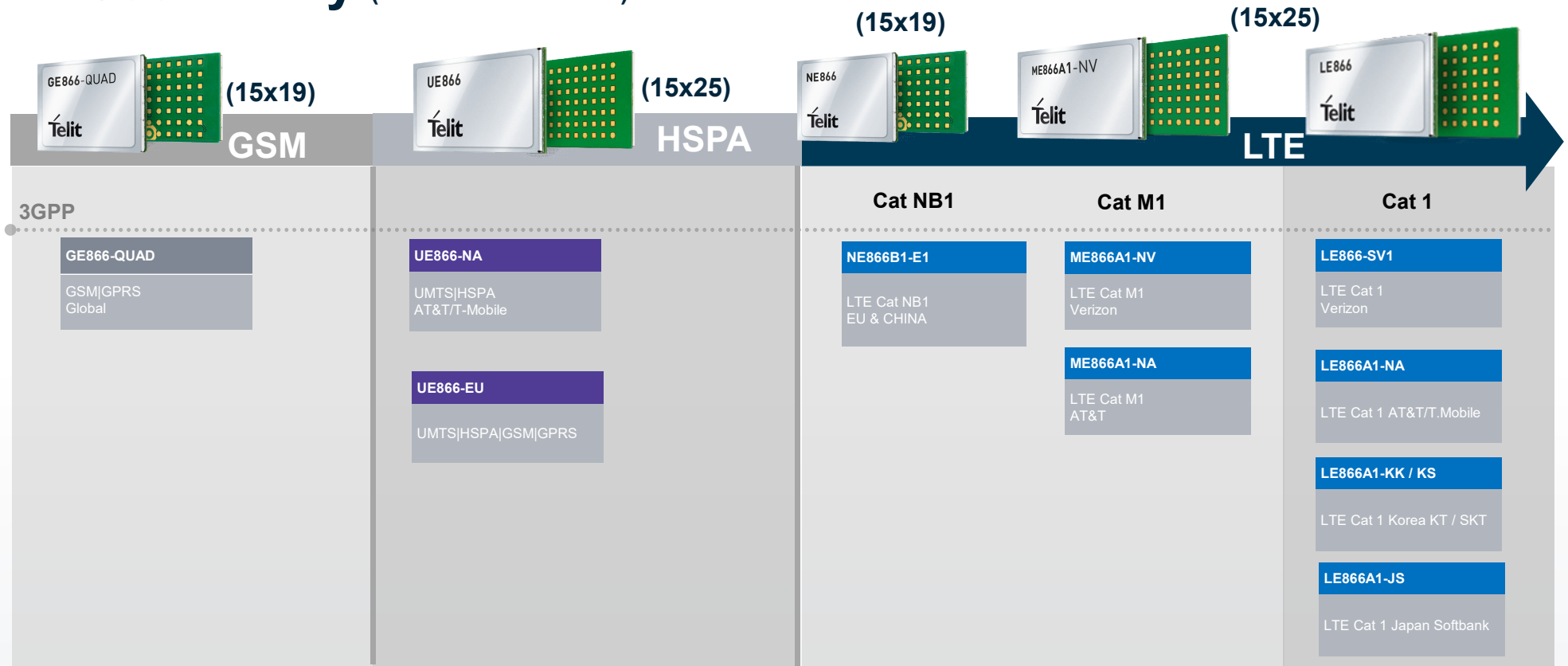
IN DEVELOPMENT

# xE866 Family

Confidential & Proprietary



# xE866 Family (15x19 or 15x25 mm)



# NE866 Cat NB1 Overview

LTE Cat. NB1

## Specifications

<b>Form Factor</b>	xE866 49 pin LGA Interface 15 x 19 x 2.2 mm	<b>Application Development Environment</b>	-
<b>Region(s)</b>	EMEA, APAC	<b>Memory (available for integrators)</b>	-
<b>Operator(s) / Bands</b>	Vodafone, DTAG, TIM China Mobile	<b>Drivers Support</b>	-
<b>Interfaces</b>	UART	<b>FOTA</b>	Yes (roadmap)
<b>Software Features</b>	Embedded UDP/IP	<b>DM</b>	-
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	-
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	-
<b>Voice</b>	-	<b>Approvals</b>	CE, GCF, CCC, SRRC



### Key Benefits:

- Low data rates with extended coverage
- Low cost, ultra-low-power
- Optional on-board SIM chip
- Scalable platform simplifies roadmap across different cellular technologies
- Easily switch to unlicensed spectrum with pin-to-pin compatible combo, RE866

### Applications:

Applications that demand lower costs and low power, such as smart metering, health monitoring, tracking, and point of sale.

### Availability:

Q3 2017

### Link:

[NE866](#)



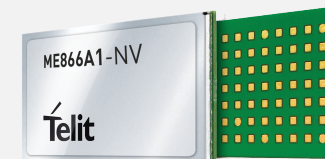


# ME866 Cat M1 Overview

LTE Cat. M1

## Specifications

<b>Form Factor</b>	xE866 77-pin LGA Interface 15 x 25 x 2.2 mm	<b>Application Development Environment</b>	AppZone C (roadmap)
<b>Region(s)</b>	NA	<b>Memory (available for integrators)</b>	(roadmap)
<b>Operator(s) / Bands</b>	Verizon, AT&T, T-Mobile	<b>Drivers Support</b>	Win Desktop, Linux, Android
<b>Interfaces</b>	USB 2.0; 2 UARTs, I <sup>2</sup> C, 7 I/O ports	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP, SSL	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	deviceWISE
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	No	<b>Approvals</b>	FCC, GCFE, Verizon, PTCRB, AT&T



## Key Benefits:

- Low data rates with extended coverage
- Low cost, ultra-low-power
- Combination of power saving mode and extended discontinuous reception (eDRX)
- Very small LGA
- Develop one PCB layout for any tech: 2G, 3G, 4G, Cat 1, LTE-M, and NB-IoT

## Applications:

Applications that demand lower costs and low power, such as smart metering, health monitoring, tracking, and point of sale.

## Availability:

Q3 2017

## Link:

[ME866](#)

# ME866 Cat M1 Roadmap

LTE



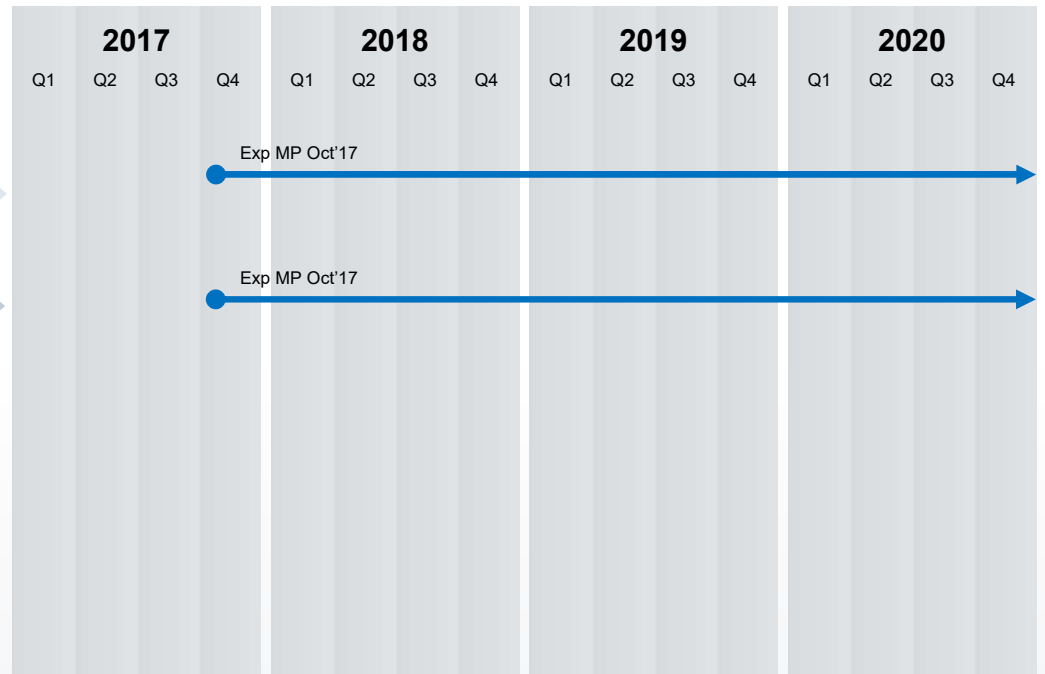
**ME866**  
Embedded

**ME866A1-NV (Verizon, NA)**  
Cat. M1, B13, B4

4G

**ME866A1-NA (AT&T, NA)**  
Cat. M1, B2, B4, B12

4G



MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

# LE866 Series Overview

LTE Cat.1 10/5 Mbps

## Specifications

<b>Form Factor</b>	xE866 77-pin LGA Interface 15 x 25 x 2 mm	<b>Application Development Environment</b>	AppZone C (roadmap)
<b>Region(s)</b>	NA, APAC	<b>Memory (available for integrators)</b>	-
<b>Operator(s) / Bands</b>	Verizon, AT&T, T-Mobile, KT, SKT, Softbank,	<b>Drivers Support</b>	Win Desktop, Linux, Android
<b>Interfaces</b>	USB 2.0; 2 UART, I <sup>2</sup> C, 7 I/O ports	<b>FOTA</b>	Yes
<b>Software Features</b>	Dual Stack IPv4/IPv6 Embedded TCP/IP, SSL	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	deviceWISE
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	No
<b>Voice</b>	VoLTE (planned)	<b>Approvals</b>	FCC/IC, PTCRB, GCF, AT&T, Verizon, KC, KT,SKT, JATE/TELEC, Softbank



### Key Benefits:

- Low cost LTE to integrate in small-sized applications because of ultra-compact and robust LGA package
- Easy to use in mass-production automated manufacturing
- Over-the-Air firmware update and device management

### Applications:

IoT applications in wearables, telematics and healthcare

### Availability:

Now

### Link:

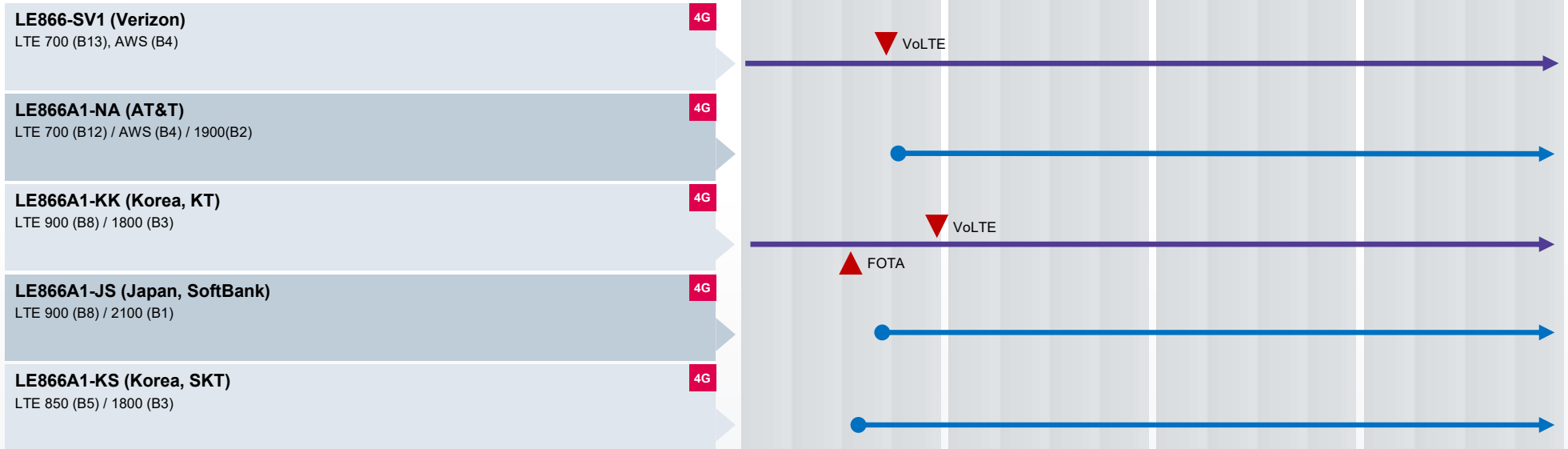
[LE866 SERIES](#)

# LE866 – LTE only Cat 1 Roadmap

LTE



**LE866 Series**  
Embedded



▲▼ MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

# UE866 Series Overview

UMTS | HSPA 7.2/5.76

## Specifications

<b>Form Factor</b>	xE866 76 pin LGA Interface 15 x 25 x 2.2 mm	<b>Application Development Environment</b>	APPZONE
<b>Region(s)</b>	EMEA, NA, APAC, Africa	<b>Memory (available for integrators)</b>	Data (Flash): 5 MB, Applications (RAM): 2 MB
<b>Operator(s) / Bands</b>	UMTS 850/1900 (NA) UMTS 900/2100 (EU) GSM 900/1800 (EU)	<b>Drivers Support</b>	Windows
<b>Interfaces</b>	Integrated: USB 2.0; 2 UART, SPI, I <sup>2</sup> C, I <sup>2</sup> S, 1.8/3V SIM Interface	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP Stack, Jamming Detection, Event Monitor, IoT Locate	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	deviceWISE
<b>Power Consumption</b>	SWITCHED OFF: 180uA IDLE mode (WCDMA): 19mA Operative mode (WCDMA HSDPA (22dBm)): 490mA	<b>GNSS</b>	No
<b>Voice</b>	YES	<b>Approvals</b>	FCC/IC, PTCRB/GCF R&TTE/ GCF



## Key Benefits:

- Easy and low cost to integrate in small application sizes due to its ultra-compact and robust LGA package
- Ideal for applications in wearable technology products, telematics, healthcare
- Easy to use in mass-production automated manufacturing

## Applications:

Perfect platform for regional applications such as telematics and UBI applications, fleet management, asset tracking and wearable devices

## Availability:

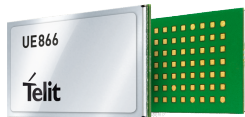
Now

## Link:

[UE866 SERIES](#)

# UE866 Roadmap

UMTS | HSDPA | HSPA



**UE866**  
Embedded

## UE866-N3G

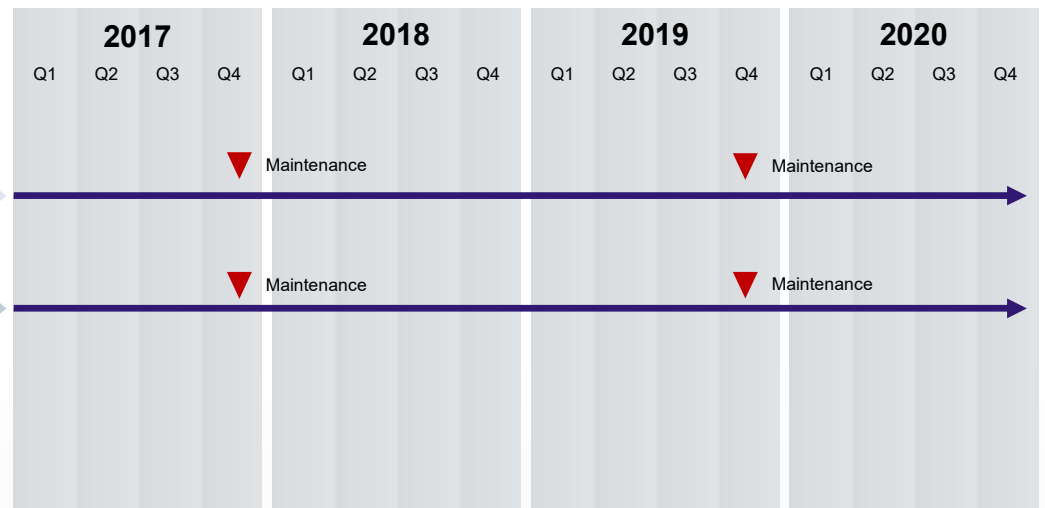
(850/1900 HSPA, LGA) NA market only  
HSPA Rel. 7 Cat.8 (7.2Mbps) DL / Cat.6 (5.7 Mbps) UL

3G

## UE866-EU

(900/2100 HSPA, 900/1800 GPRS, LGA) EU market

2G 3G



MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

# GE866 Series Overview

GSM|GPRS

## Specifications

<b>Form Factor</b>	xE866 49 pin LGA Interface 15 x 19 x 2 mm	<b>Application Development Environment</b>	-
<b>Region(s)</b>	EMEA, NA, LA, APAC, Australia	<b>Memory (available for integrators)</b>	-
<b>Operator(s) / Bands</b>	Quad-Band	<b>Drivers Support</b>	CMUX WinCE6 RIL WinCE6
<b>Interfaces</b>	7 I/O ports, analog audio, digital audio, 1 ADC + 1 DAC + 2 UARTs	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP, SSL, Jamming Detection	<b>DM</b>	-
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	-
<b>Power Supply</b>	3.8 VDC	<b>GNSS</b>	No
<b>Voice</b>	YES	<b>Approvals</b>	CE, GCF FCC, IC, PTCRB



## Key Benefits:

- Easy and low cost to integrate in small application sizes because of ultra-compact and robust LGA package
- Fully voice capable with analog and digital audio interfaces
- Over-the-Air firmware update through Premium FOTA Management

## Applications:

Ideal solution for applications in wearable technology products, telematics, healthcare

## Availability:

Now

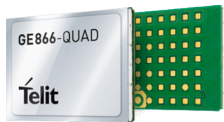
## Link:

[GE866 SERIES](#)



# GE866 Roadmap

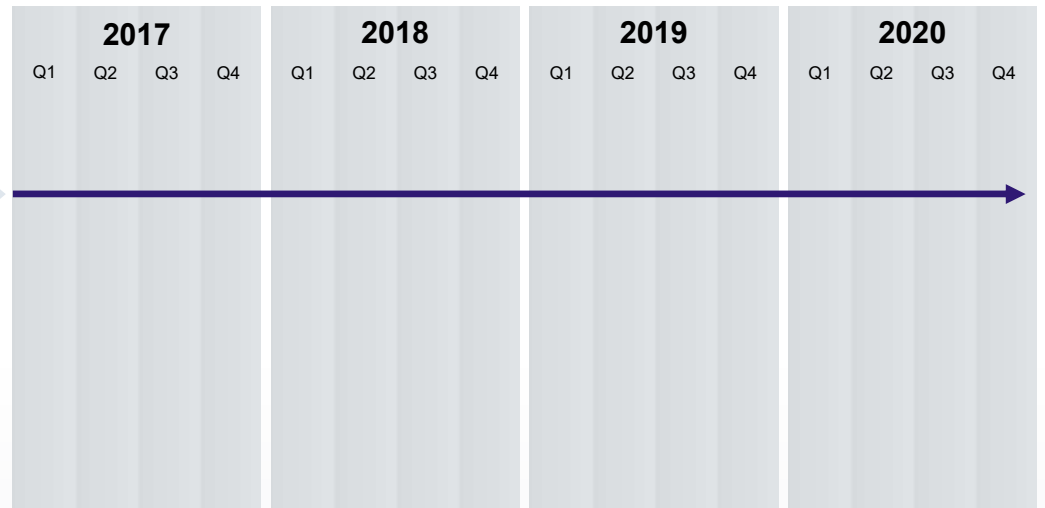
GSM|GPRS



**GE866**  
Embedded

**GE866-QUAD**  
(Quad-band GSM/GPRS) global mkt

2G



▲ MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

# xL865 Family

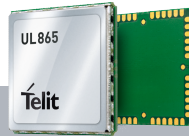
Confidential & Proprietary



# xL865 Family (24x24 mm)



2G / CDMA / GPRS



3G HSPA



4G NB-IoT

## 3GPP

<b>GL865-DUAL</b> GSM   GPRS	<b>GL865-DUAL V3</b> GSM   GPRS	<b>GL865-DUAL V3.1</b> GSM   GPRS
<b>GL865-QUAD</b> GSM   GPRS	<b>GL865-QUAD V3</b> GSM   GPRS	<b>GL865-QUAD V3.1</b> GSM   GPRS

## CDMA

<b>CL865-SC</b> CDMA   1xRTT
<b>CL865-DUAL</b> CDMA   1xRTT

<b>UL865-EU</b> UMTS   HSPA+ GSM GPRS
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<b>UL865-NA</b> UMTS   HSPA+ GSM GPRS
---

<b>UL865-N3G</b> UMTS   HSPA+
----------------------------------

<b>NL865</b> Cat. NB1
--------------------------

- Pin to Pin Compatible
- Common AT command set

# NL865 Overview

LTE Cat. NB1

## Specifications

<b>Form Factor</b>	xL865 QFN 24.4 x 24.4 x 2.7 mm	<b>Application Development Environment</b>	-
<b>Region(s)</b>	EMEA, APAC	<b>Memory (available for integrators)</b>	-
<b>Operator(s) / Bands</b>	Vodafone, DTAG, TIM China Mobile	<b>Drivers Support</b>	-
<b>Interfaces</b>	UART	<b>FOTA</b>	Yes (roadmap)
<b>Software Feature</b>	Embedded UDP/IP	<b>DM</b>	-
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	-
<b>Power Consumption</b>	3.8 VDC	<b>GNSS</b>	-
<b>Voice</b>	-	<b>Approvals</b>	CE, GCF, CCC, SRRC



## Key Benefits:

- Low data rates with extended coverage
- Low cost, ultra-low-power
- Optional on-board SIM chip
- Scalable platform simplifies roadmap across different cellular technologies
- Easily switch to unlicensed spectrum with pin-to-pin compatible combo, RE866

## Applications:

Applications that demand lower costs and low power, such as smart metering, health monitoring, tracking, and point of sale.

## Availability:

Q4 2017

## Link:

# NL865 Cat NB1 Roadmap

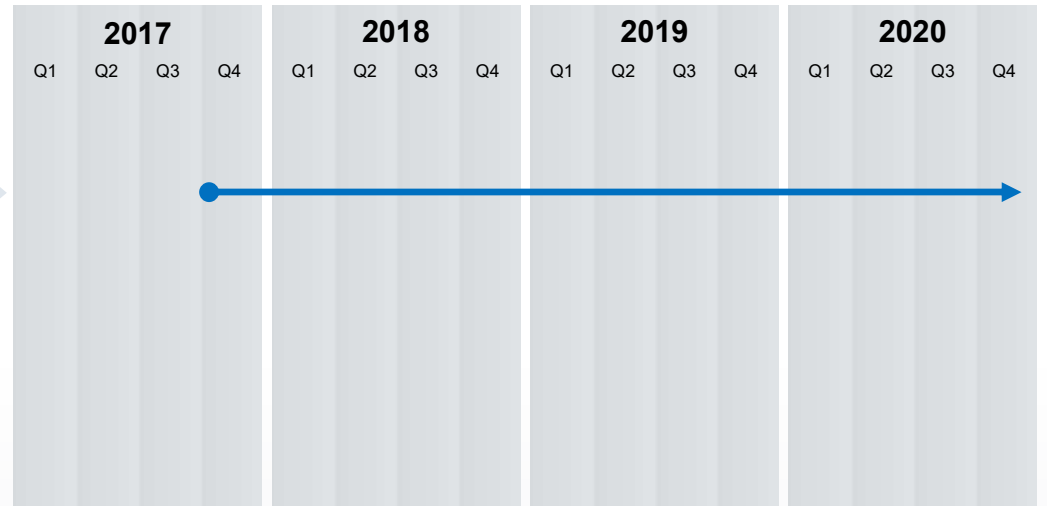
LTE



**NL865**  
Embedded

**NL865B1-EU (EU & CHINA)**  
Cat NB1 – B20, B8

4G



▲ MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

# UL865 Series

UMTS | HSPA 7.2/5.76

## Specifications

<b>Form Factor</b>	xL865 QFN 24.4 x 24.4 x 2.6 mm	<b>Application Development Environment</b>	APPZONE
<b>Region(s)</b>	EMEA, NA, LA, APAC	<b>Memory (available for integrators)</b>	Data (Flash): 5 MB, Applications (RAM): 2 MB
<b>Operator(s) / Bands</b>	UMTS 850/1900 (NA) UMTS 900/2100 (EU) GSM 850/1900 (NA) GSM 900/1800 (EU)	<b>Drivers Support</b>	Windows
<b>Interfaces</b>	Integrated: USB 2.0; UART, SPI, I <sup>2</sup> S, 1.8/3V SIM Interface, 2A/D plus 1D/A converters	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP Stack, Jamming Detection, Event Monitor, IoT Locate	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	deviceWISE
<b>Power Consumption</b>	SWITCHED OFF: 180uA IDLE mode (WCDMA): 1.8mA Operative mode (WCDMA HSDPA (22dBm)): 494mA	<b>GNSS</b>	-
<b>Voice</b>	YES	<b>Approvals</b>	FCC/IC, PTCRB/GCF R&TTE/ GCF, ANATEL



### Key Benefits:

- Easy to bundle design with Telit's GPS or GPS|GLONASS receivers for applications requiring location awareness such as fleet management and track-and-tracing.
- Over-the-Air firmware update and device management

### Applications:

Ideal for applications in security alarm systems, automated meter reading and POS terminals.

### Availability:

Now

### Link:

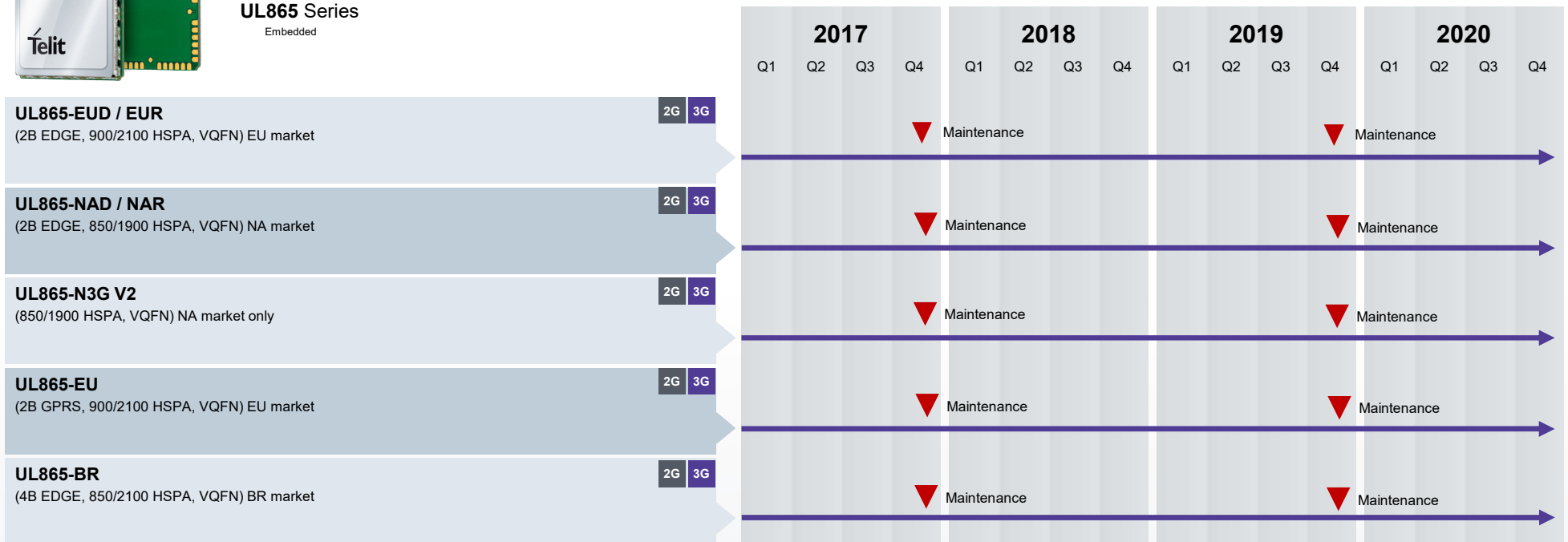
[UL865 SERIES](#)

# UL865 Overview



**UL865 Series**  
Embedded

UMTS|HSDPA|HSPA



▲▼ MAINTENANCE RELEASE

IN PRODUCTION

IN DEVELOPMENT

# GL865 Series

GSM|GPRS

## Specifications

<b>Form Factor</b>	xL865 QFN / LCC 24.4 x 24.4 x 2.6 mm	<b>Application Development Environment</b>	-
<b>Region(s)</b>	EMEA, NA, LA, APAC, Australia	<b>Memory (available for integrators)</b>	-
<b>Operator(s) / Bands</b>	Dual/Quad-Band	<b>Drivers Support</b>	CMUX WinCE6 RIL WinCE6
<b>Interfaces</b>	8 I/O, 2 ADCs + 1 DAC analog and digital audio	<b>FOTA</b>	Yes
<b>Software Features</b>	Embedded TCP/IP, SSL, Jamming Detection	<b>DM</b>	-
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	-
<b>Power Consumption</b>	3.8 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	Yes	<b>Approvals</b>	CE, GCF, FCC, IC, PTCRB, ANATEL



### Key Benefits:

- Ultra low power consumption
- Easy to bundle-design with Telit's GPS or GPS|GLONASS receivers
- Over-the-Air firmware update and device management

### Applications:

For applications requiring location awareness such as fleet management and track-and-tracing

### Availability:

Now

### Link:

[xL865](#)





# Routers & Gateways Solutions

**LGA Modules & mPCIe modules**

Confidential & Proprietary

The Telit logo consists of a stylized yellow and white graphic element resembling a checkmark or a signal, followed by the word "Telit" in a bold, white, sans-serif font.

# LE910 mPCIe Overview

LTE 100/50 | DC-HSPA+ 42.0/5.76

## Specifications

<b>Form Factor</b>	xE910 Mini PCIe 51 x 30 x 3.2 mm	<b>Application Development Environment</b>	AppZone
<b>Region(s)</b>	EMEA, NA, Japan, AU	<b>Memory (available for integrators)</b>	5MB Flash, 16MB RAM
<b>Operator(s) / Bands</b>	Verizon, AT&T, T-Mobile, Telstra	<b>Drivers Support</b>	Win, Android, Linux
<b>Interfaces</b>	Integrated: USB 2.0; UART, GPIOs	<b>FOTA</b>	Yes
<b>Software Feature</b>	Dual Stack IPV4/IPV6, Embedded TCP/IP, SSL, BIP	<b>DM</b>	Yes
<b>Temperature (operating)</b>	-40°C to + 85°C	<b>Cloud</b>	deviceWISE
<b>Power Supplu</b>	3.3 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	EMEA, NA, Australia	<b>Approvals</b>	FCC/IC, PTCRB/GCF RCM, R&TTE/ GCF



### Key Benefits:

- Standard Mini PCIe Data-card form factor
- LTE technology interchangeable with HSPA+ or EV-DO counterpart

### Applications:

Mobile computing, kiosks, PDAs, e-readers, tablet PCs, and consumer electronics in general

### Availability:

Now

### Link:

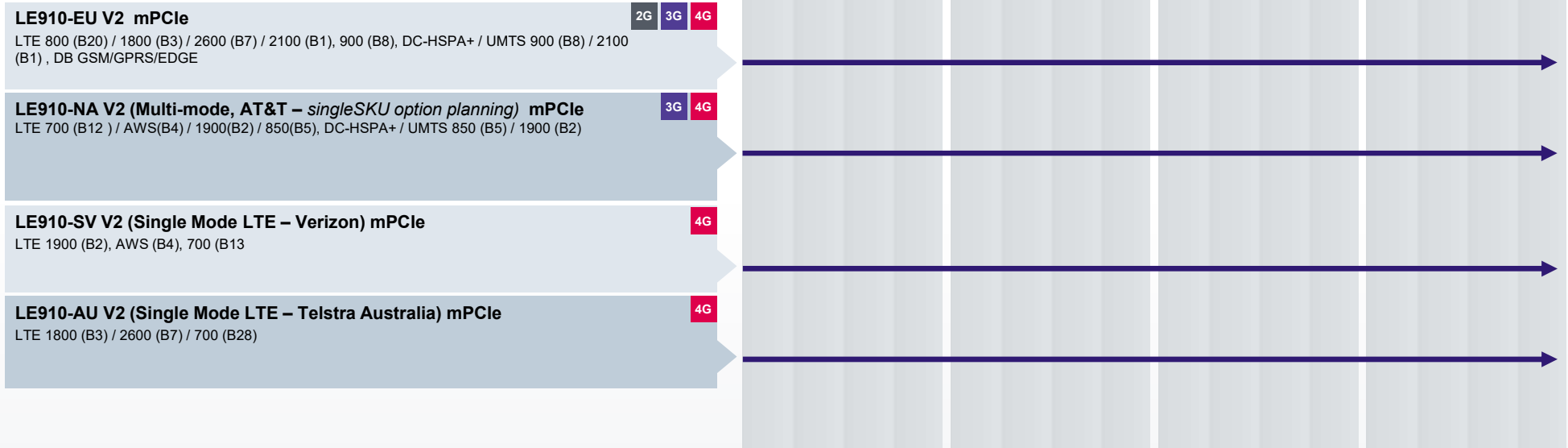
[LE910 Mini PCIe](#)

# LE910 Series Mini PCIe Roadmap

UMTS | HSPA | LTE



**LE910**  
Embedded



MAINTENANCE RELEASE

IN PRODUCTION    IN DEVELOPMENT

# LE922A6 Cat 6 Overview

LTE 100/50 | DC-HSPA+ 42.0/5.76

## Specifications

<b>Form Factor</b>	xE920 LGA 198 pins 34 x 40 x 3 mm	<b>Application Development Environment</b>	N/A
<b>Region(s)</b>	EMEA, Australia	<b>Memory (available for integrators)</b>	-
<b>Operator(s) / Bands</b>	N/A	<b>Drivers Support</b>	Linux, Windows
<b>Interfaces</b>	USB 3.0	<b>FOTA</b>	YES
<b>Software Feature</b>	TCP/UDP/FTP/SMTP stack, SSL	<b>DM</b>	YES
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud</b>	deviceWISE
<b>Power Supply</b>	3.3 VDC	<b>GNSS</b>	No
<b>Voice</b>	VoLTE/SRVCC, Digital audio	<b>Approvals</b>	R&TTE, GCF



## Key Benefits:

- latest generation of LTE-A networks delivering LTE Cat 6 throughput up to 300 Mbps in DL and 50 Mbps in UL
- Increased connectivity performance with carrier aggregation up to 40MHz bandwidth, both intraband and interband, and MIMO 2x2

## Applications:

Well-suited for devices that demand extremely high data throughput requirements, such as mobile broadband gateways and routers

## Availability:

Now

## Link:

[LE922A6](#)

# LE922A6 Roadmap

UMTS | HSPA | LTE



**LE922A6**  
Embedded

**LE922A6-E1 (LTE Cat.6, 2x20 CA, 300/50Mbps) EMEA mkt**

LTE 800 (B20) / 1800 (B3) / 2600 (B7)

4G

**LE922A6-A1 (LTE Cat.6, 2x20 CA, 300/50Mbps) Optus AUS**

LTE 700 (B28) / 1800 (B3) / 2100 (B1) / 2600 (B7) / 2350 (B40)  
DC-HSPA+ / HSPA / UMTS 900 / 2100

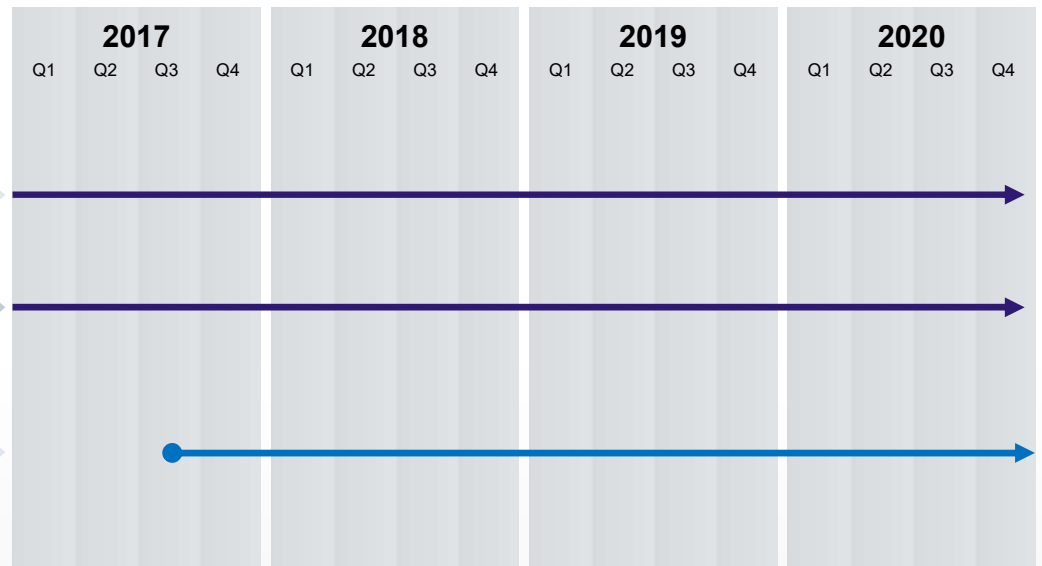
3G

4G

**LE922A6-E2 (LTE Cat.6, 2x20 CA, 300/50Mbps) EMEA mkt**

LTE 800 (B20) / 1800 (B3) / 2600 (B7) / 900 (B8) / 700 (B28) / 1500 DL (B32)

4G



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# LM940 Cat 9/11 mPCIe Overview

LTE 600/50

## Specifications

<b>Form Factor</b>	Mini PCIe	<b>Application Development Environment</b>	N/A
<b>Region(s)</b>	Global	<b>Memory (available for integrators)</b>	-
<b>Operator(s) / Bands</b>	ATT&, VZW, Sprint, Rogers, Bell, Telus Vodafone, Telstra	<b>Drivers Support</b>	Linux, Windows
<b>Interfaces</b>	USB 3.0	<b>FOTA</b>	YES
<b>Software Feature</b>	QMI; FM SW	<b>DM</b>	YES
<b>Temperature (operating)</b>	40°C to +85°C	<b>Cloud</b>	deviceWISE
<b>Power Supply</b>	3,2 VDC	<b>GNSS</b>	Yes
<b>Voice</b>	Data only	<b>Approvals</b>	PTCRB, CE, GCF



## Key Benefits:

- High data rates
- Global SKU

## Applications:

Ideal for Industrial Routers and Gateways for Enterprise routing and commercial, retail, oil and gas, energy gateway applications.

## Availability:

Samples: Available Now  
MP – Q3'17

## Link:

# LM940 Cat 9/11 mPCIe Roadmap

UMTS | HSPA | LTE

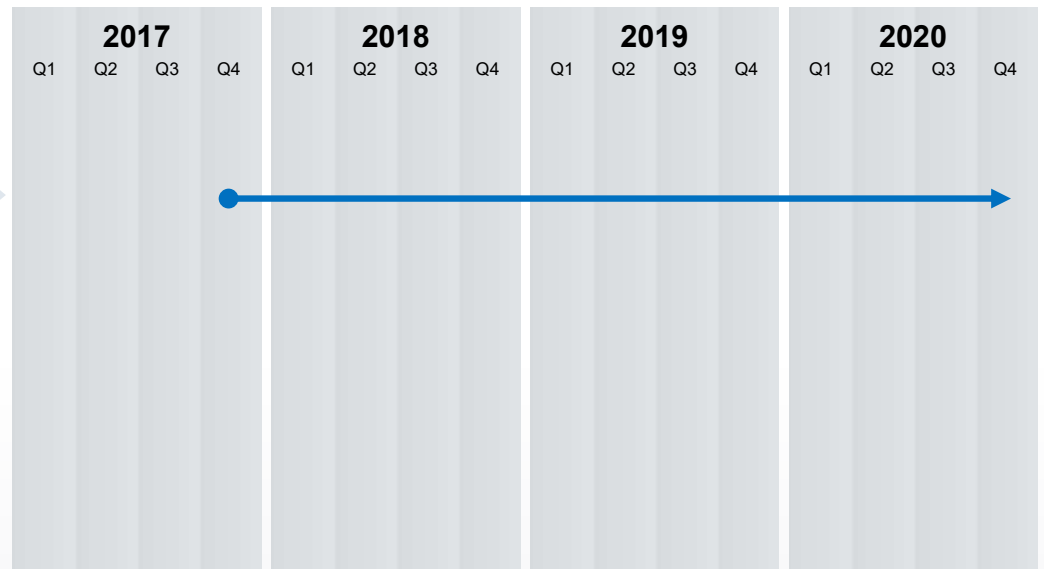


**LM940**  
Embedded

## LM940

(LTE Cat.11, 3x20 CA, 256QAM 600/50Mbps) Global  
 LTE FDD (1-5,7,8,12,13,17,20,25,26,28,29,30,66) LTE TDD (38,40,41)  
 3G (1,2,4,5,8)

3G 4G



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# Mobile Computing

## M.2 modules

Confidential & Proprietary



# LN930 Mobile Computing Cat 6 Overview

LTE 600/50

## Specifications

<b>Form Factor</b>	M.2 (NGFF)	<b>Application Development Environment</b>	N/A
<b>Region(s)</b>	WW	<b>Memory (available for integrators)</b>	N/A
<b>Operator(s) / Bands</b>	AT&T, Verizon Vodafone, Telefonica, Orange Docomo, KDD	<b>Drivers Support</b>	Linux, Windows, Android
<b>Interfaces</b>	MBIM, C-AT/NCM USB 2.0 HS	<b>FOTA</b>	n/A
<b>Software Feature</b>	MBIM	<b>DM</b>	N/A
<b>Temperature (operating)</b>	-10°C to +55°C	<b>Cloud</b>	N/A
<b>Power Supply</b>	3.3 VDC	<b>GNSS</b>	GPS, A-GPS, GLONASS
<b>Voice</b>	Data only	<b>Approvals</b>	CC/CCC/FCC/PTCRB/ CE/GCF,JRL/JTBL



## Key Benefits:

- Support for multiple operating systems
- Adaptive Clocking, Selective Suspend, Link Power Management
- Dynamic Power Thermal Management with always on/always connected (AOC) user experience.

## Applications:

PDAs, e-readers, tablets, and mobile computing or consumer electronics in general

## Availability:

Now

## Link:

[LN930](#)

# LN930 Mobile Computing Cat 6 Roadmap

UMTS | HSPA | LTE



**LN930**  
Embedded

## LN930 M.2 (WW SKU)

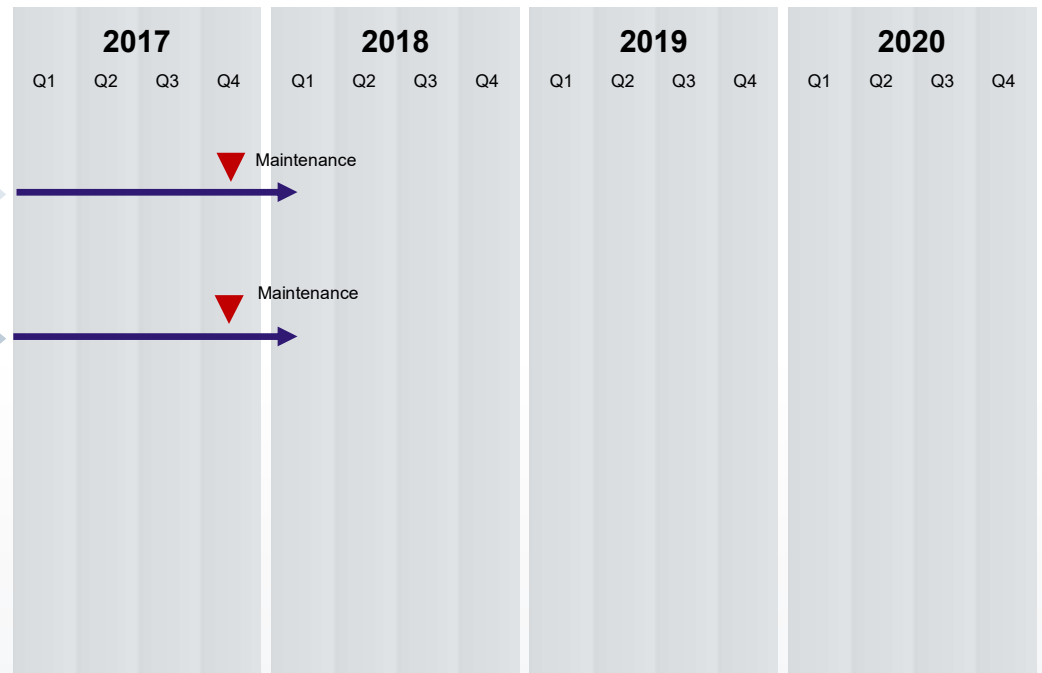
LTE - 1-5, 7, 8, 13, 17, 18, 19, 20  
3G - 1, 2, 4, 5, 8  
2G - 2, 3, 5, 8

2G 3G 4G

## LN930-AP M.2 (APAC SKU)

LTE - 1, 3, 8, 9, 11, 18, 19, 21, 26  
3G - 1, 6, 8, 11, 19

3G 4G



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# LN940 Cat 9/11 Overview

LTE 600/50 Mbps

## Specifications

<b>Form Factor</b>	M.2 (NGFF)	<b>Application Development Environment</b>	N/A
<b>Region(s)</b>	APAC, EMEA, Americas	<b>Memory (available for integrators)</b>	N/A
<b>Operator(s) / Bands</b>	ATT&, VZW, Vodafone, Orange, Deutsche Telekom, Swisscom, Telfonica, Telstra, Optus, KDDi, DoCoMo, Softbank	<b>Drivers Support</b>	Windows 10, Linux, Android
<b>Interfaces</b>	USB 3.0	<b>FOTA</b>	N/A
<b>Software Feature</b>	DPR, Tunable Antenna, Windows-Based FW switching	<b>DM</b>	N/A
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud</b>	N/A
<b>Power Consumption</b>	-	<b>GNSS</b>	Yes
<b>Voice</b>	No	<b>Approvals</b>	FCC, PTCRB, RED, GCF, JATE/TELEC, IC, RCM



### Key Benefits:

- Latest PCIe data card form factor; easy to integrate
- **International regulatory and carrier certifications significantly cut project deployment time**
- **LTE-advanced with enhanced connectivity performance, including Carrier Aggregation, MIMO and 256QAM**

### Applications:

Ultrabook, 2-in-1 Notebooks, tablets, router CPE and Mobile Computing

### Availability:

Q4/2017

### Link:

To be available

# LN940 Cat 9/11 Roadmap



**LN940**  
Embedded

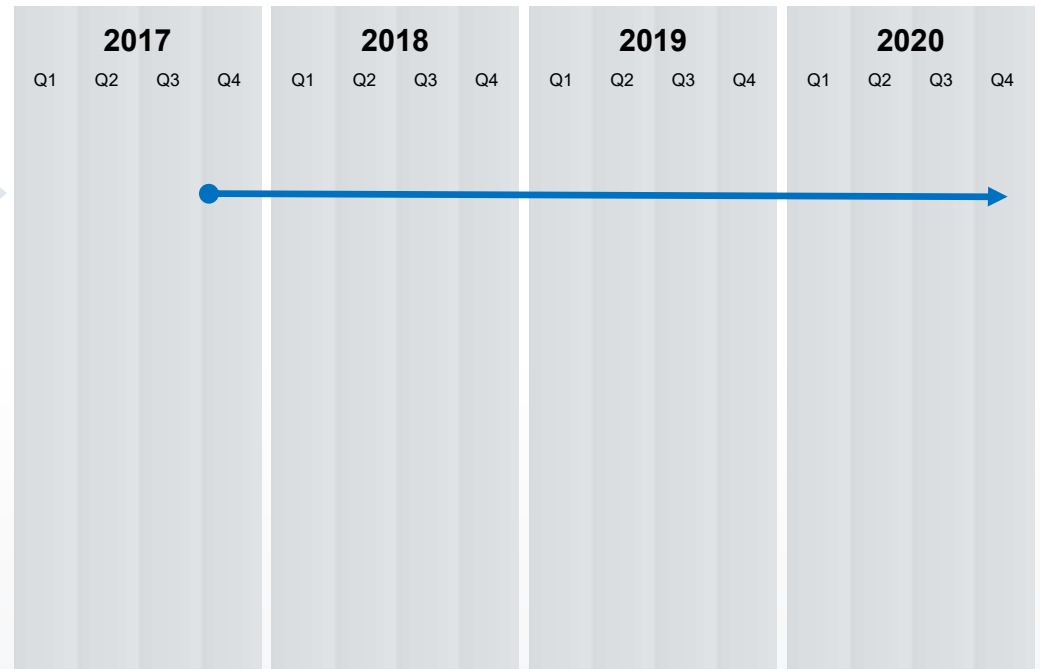
## LN940 M.2 (WW SKU)

LTE Bands: 1, 2, 3, 4, 5, 7, 8, 12, 13, 17, 18, 19, 20, 21, 25, 26, 28, 29, 30, 38, 39, 40, 41, 66

UMTS Bands: 1, 2, 3, 4, 5, 6, 8, 19

3G 4G

UMTS | HSPA | LTE



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# Smart Modules

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# HE922-3GR Overview

UMTS | HSPA+ 21.0/5.76

## Specifications

<b>Form Factor</b>	xE922 34 x 40 x 3.0 mm	<b>Application Development Environment</b>	Android 6.0 Marshmallow Yocto Linux
<b>Region(s)</b>	EMEA, NA, APAC	<b>Memory (available for integrators)</b>	8GB Flash eMMC 1GB LPDDR3
<b>Operator(s) / Bands</b>	AT&T, T-Mobile, Vodafone Quad-band 3G (1/2/5/8), Quad-band 2G	<b>Drivers Support</b>	Android Linux
<b>Interfaces</b>	UART, SPI, I2C, USB, SDIO, MIPI-DSI, MIPI-CSI, USIM, I2S/PCM	<b>FOTA</b>	No
<b>Software Features</b>	-	<b>DM</b>	No
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud</b>	No
<b>Power Consumption</b>	200mA Idle display ON 2.6mA Flight Mode	<b>GNSS</b>	Yes
<b>Voice</b>	Not supported. Only data communication	<b>Approvals</b>	GCF, PTCRB, FCC, IC, CE, WPC Wi-Fi (WFA), BT (BT Sig)



## Key Benefits:

- Certified modules with integrated connectivity features: WiFi + Bluetooth + GNSS + Optional 3G/2G Cellular
- Atom x3 Quad-Core processor
- Android / Yocto Linux for easy application development
- Easy integration to build IoT platform

## Applications:

POS, Smart Home/Smart Building, Gateways, remote monitoring, applications using Display

## Availability:

Now

## Link:

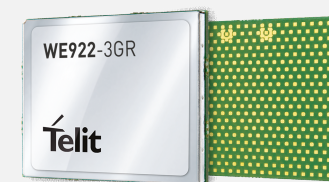
[HE922-3GR & WE922-3GR](#)

# WE922-3GR Overview

Wi-Fi 802.11 b/g/n | BT 4.0 LE

## Specifications

<b>Form Factor</b>	xE922 34 x 40 x 3.0 mm	<b>Application Development Environment</b>	Android 6.0 Marshmallow Yocto Linux
<b>Region(s)</b>	EMEA, NA, APAC	<b>Memory (available for integrators)</b>	8GB Flash eMMC 1GB LPDDR3
<b>Operator(s) / Bands</b>	N/A	<b>Drivers Support</b>	Android Linux
<b>Interfaces</b>	UART, SPI, I2C, USB, SDIO, MIPI-DSI, MIPI-CSI, USIM, I2S/PCM	<b>FOTA</b>	No
<b>Software Features</b>	-	<b>DM</b>	No
<b>Temperature (operating)</b>	-40°C to +85°C	<b>Cloud</b>	No
<b>Power Consumption</b>	200mA Idle display	<b>GNSS</b>	Yes
<b>Voice</b>	No Only data communication	<b>Approvals</b>	FCC, IC, CE, Wi-Fi (WFA), BT (BT Sig)



## Key Benefits:

- Certified modules with integrated connectivity features: WiFi + Bluetooth + GNSS + Optional 3G/2G Cellular
- Atom x3 Quad-Core processor
- Android / Yocto Linux for easy application development
- Easy integration to build IoT platform

## Applications:

POS, Smart Home/Smart Building, Gateways, remote monitoring, applications using Display

## Availability:

Now

## Link:

[HE922-3GR & WE922-3GR](#)



# HE922-3GR, WE922-3GR Roadmap

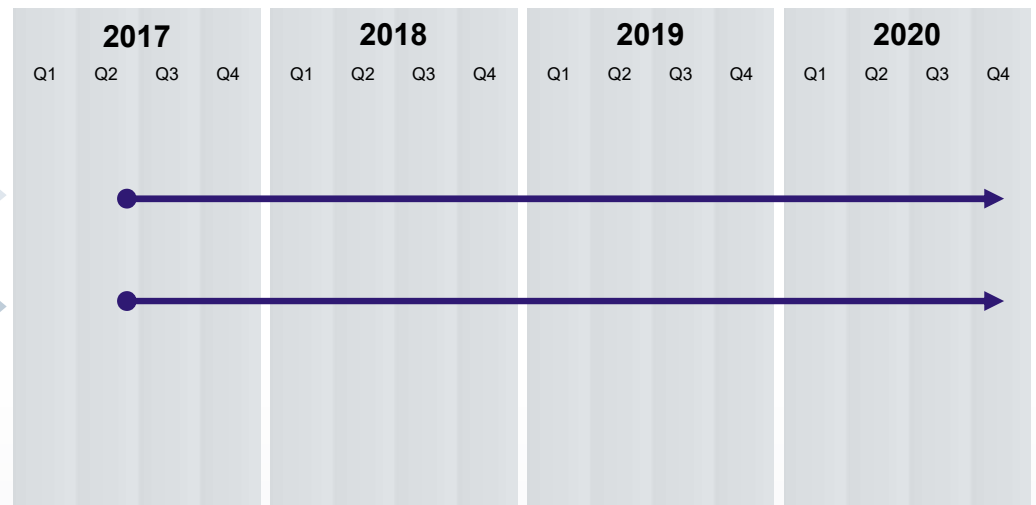
UMTS | HSDPA | HSPA



**HE922-3GR**  
**WE922-3GR**  
Embedded

**HE922-3GR**  
(HSPA+ / GSM | GPRS | EDGE / WiFi / BT / GNSS) 2G 3G

**WE922-3GR**  
(Wi-Fi / BT / GNSS) W



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Thank You!

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