

Ref: PCN_LG_20181031

Product Change Notice

Standard LTE & GNSS

Summary

Effective 31st of October 2018 NetModule is starting to replace the standard LTE cellular modem for the region EMEA due to an end-of-life situation. This change will affect the specification of the LTE & GNSS feature set of our products.

To extend our modem offering we introduced new modems to cover the regions US (North America) and APAC (Asia Pacific). Please contact our sales for further information.

As part of NetModule's product policy, this notice is being issued to assist our valued customers in system integration.

Affected Products

All products with product option "-L" for standard LTE and/or "-G" for GPS are affected with the exclusion of the products NB800, NB1601.

Products using other cellular standards are NOT affected: LTE Advanced, LTE 450MHz, CDMA 450MHz, GSM-R.

Products with GNSS-Advanced or GNSS-Dead Reckoning features are NOT affected.

Product Change

The LTE and GNSS feature comparison table highlights the changes introduced by the modem change.

NetModule Modem Type	Standard LTE Modem with GPS	
Lifecycle Status	End-of-Life	Replacement
Region	EMEA	
Product Option Codes	"-L" and "-L-G"	
4G - LTE	B1, B2, B3, B5, B7, B8, B20	B1, B3, B5, B7, B8, B20
3G - DC-HSPA+/UMTS (MHz)	B5(850), B8(900), B2(1900), B1(2100)	
2G - GSM/GPRS/EDGE (MHz)	850/900/1800/1900	
LTE Category	3	4
MIMO	2x2	
Data rates (max) downlink / uplink	100 Mbps / 50 Mbps	150 Mbps / 50 Mbps
Voice Support	GSM	CSFB
GNSS Support	GPS, GLONASS	GPS, Galileo, GLONASS, BeiDou
Tracking Sensitivity	Up to -154 dBm	Up to -165 dBm
GNSS Chipset	Modem built-in	u-blox M8
Required NRSW	3.7.0.100 and later	3.8.0.114 and later

Table 1: LTE and GNSS feature comparison table

Key Dates

The transition phase starts 31st of October 2018

Last time buy (LTB): 15th of December 2018

Warranty Information

The warranty remains in effect for all products affected by this notice. If replacement is required as part of warranty coverage, the affected units will be replaced with currently supported modems free of charge. The original warranty end date will apply to the new replacement unit in this case.

Additional Information

Should you have any questions, please do not hesitate to contact your NetModule sales representative at sales@netmodule.com or +41319852510

Appendix – Standard LTE Offering

We are upgrading our standard LTE offering to cover EMEA, US and APAC regions with a unified modem portfolio. In addition, we decided to bundle the modem with a GNSS receiver chipset of the company u-blox to provide improved positioning information.

In a first phase, we will migrate the standard LTE & GNSS components of all products except the NB800 and NB1601*. We expect a transition phase of 6 months.

*NB1601 contains already a u-blox modem

The table below provides an overview of our new offering.

NetModule Modem Type	Standard LTE Modem with GPS			
Region	EMEA	US (Verizon, AT&T)	US (AT&T, Rogers)	APAC
Product Option Codes	"-L", "-L-G"	"-Lb", "-Lb-G"	"-Lbb", "-Lbb-G"	"-Lg", "-Lg-G"
Status / Effective	Available Q4 2018	Available Q1 2019	Available Q1 2019	Available Q4 2018
LTE Bands	B1, B3, B5, B7, B8, B20	B2, B4, B5, B13, B17	B2, B4, B5, B7, B17	B1, B3, B5, B7, B8, B28
DC-HSPA+/UMTS Bands (MHz)	B5(850), B8(900), B2(1900), B1(2100)	B5(850), B2(1900)	B5(850), B8(900), B4 (AWS), B2(1900), B1(2100)	B5(850), B8(900), B2(1900), B1(2100)
GSM/GPRS/EDGE Bands (MHz)	850, 900, 1800, 1900	none	850, 900, 1800, 1900	850, 900, 1800, 1900
LTE Category	4			
MIMO	2x2			
Data Rates (max): down /up	150 Mbps / 50 Mbps			
Voice, Audio	Yes (CSFB)			
Modem Vendor, Type	u-blox TOBY-L210	u-blox TOBY-L201	u-blox TOBY-L200	u-blox TOBY-L280
GNSS Support	GPS, Galileo, GLONASS. BeiDou			
Tracking Sensitivity	Up to -165 dBm			
Assisted GPS	Yes (under development)			
GNSS Chipset	u-blox M8			
Form Factor	miniPCIe			

Table 2: Standard LTE & GNSS offering feature table