

Ref: PCN_NB800_20200901

Product Change Notice

NB800 Product Update

Summary

Effective 1st of September 2020 NetModule introduces new NB800 features and additional modem options.

Affected Products

The following NB800 standard products will be replaced by the new NB800 Rev. B02 product variants in combination with NRSW 4.4 (and later):

NB800 Rev. A (Discontinued)		NB800 Rev. B02 (Replacement)		
Order Code	Description	Order Code	Description	
NB800-LSu	LTE +USB	NB800-LSu-G	LTE +USB +GNSS	
NB800-LScSu	LTE+COM-I/O+USB	NB800-LScSu-G	LTE +COM-I/O +USB +GNSS	
NB800-LWWtSu	LTE +WLAN +BT/BLE +USB	NB800-LWWtSu-G	LTE +WLAN +BT/BLE +USB +GNSS	
NB800-LWWt	LTE+WLAN+BT/BLE	NB800-LWWtSu-G	LTE+WLAN+BT/BLE+USB+GNSS	

Table 1: List of affected NB800 standard products

Product Change

The following capabilities have been additionally introduced with the new product hardware revision BO2:

- LTE Cat 4 Modem options for international coverage (Regions: EMEA, NA, APAC/LATAM)
- CSFB (GSM / UMTS) voice call support (requires software key V)
- GNSS positioning support
- Real time clock for timed system wakeups
- Support for additional SIM chip on request (software selection between SIM card and SIM chip)
- Improved RF antenna performance

Changes of existing features and mechanics comparing to current revision A:

- LTE bands B2, B4 are not supported in EMEA modem
- Additional antenna connector A5 for GNSS
- Slightly adjusted position of SMA antenna connectors A1 A4 and SIM slot

There is no change in the software update process:

- The product update will be supported with NRSW 4.4 and later
- NRSW 4.3 and earlier do not support NB800 Rev. B02

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



Appendix - Mechanical Changes

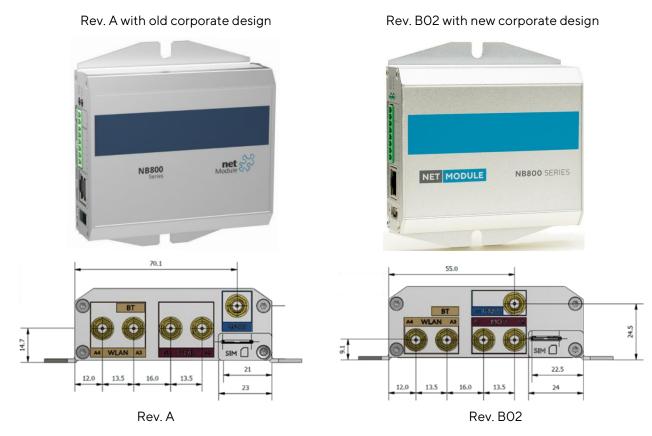


Figure 1: Rear panel changes, antenna connectors moved (front panel remains unchanged)

Appendix - Modem Support

NB800 Product Revision	Rev. A	Rev. BO2	Rev. BO2	Rev. BO2
Modem Order Code	_	L	-Lbb	-Lg
Region	EM	1EA	NA	APAC / LATAM
LTE Bands (MHz)	B1(2100), B2(1900), B3(1800), B4(AWS) B5(850), B7(2600), B8(900), B20(800)	B3(1800), B5(850), B7(2600), B8(900), B20(800)		B5(850), B7(2600) B8(900), B28(750)
DC-HSPA+/UMTS Bands (MHz)	B1(2100), B2(1900),	B5(850), B8(900)	B1(2100), B2(1900) B4 (AWS), B5(850) B8(900)	B1(2100), B2(1900) B5(850), B8(900)
GSM/GPRS/EDGE Bands (MHz)	B5(850), B8(900), B3(1800), B2(1900)			
LTE Category		4		
мімо	2x2			
Data Rates (max): downlink / uplink	150 Mbps / 50 Mbps			
Voice, Audio	no yes (CSFB)			
Modem Vendor, Type	Huawei, ME909s-120	u-blox, TOBY-L210	u-blox, TOBY-L200	u-blox, TOBY-L280

Table 2: Comparison of modem features



Appendix - Type Label

The type label shows the product revision (No. 11)

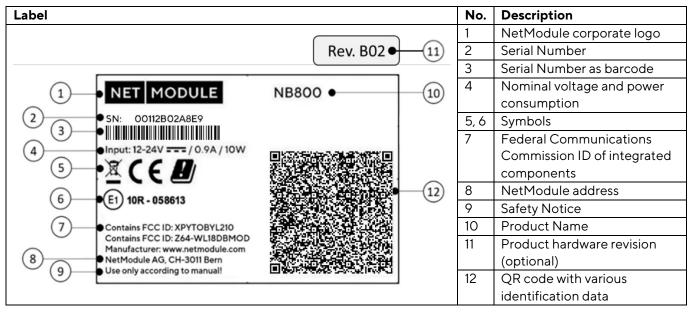


Table 3: New type label format (introduced with new corporate design)

Appendix - Product Change History

Hardware	Description	Software	Product Status
Revision			
Α	Initial version	NRSW 4.1. and	Active,
		later	01-Jul-17
Α	All product variants provide the 8-pin power / extension	-	Active,
	connector (except NB800-USu)		8-Jun-18
B02	New features:	NRSW 4.4. and	Active,
	 LTE Cat 4 Modem options for international coverage and 	later	15-Apr-20
	compliance		
	(Regions: EMEA, NA, APAC/LATAM)		
	- CSFB (GSM / UMTS) voice call support		
	– GNSS positioning support		
	Real time clock for timed system wakeups		
	- Support for additional SIM chip (software selection between		
	SIM card and SIM chip), on request		
	– Improved RF antenna performance		
	Changes:		
	– LTE bands B2, B4 are not supported in EMEA modem		
	- Additional antenna connector A5 for GNSS		
	- Adjusted position of SMA antenna connectors A1 - A4		
	- Introduced new corporate design		

Table 4: NB800 Product Change History