

Ref: PCN\_NB800\_20200415

# **Product Change Notice**

### **NB800 Product Update**

### Summary

Effective 15<sup>th</sup> of April 2020 NetModule introduces an NB800 product update to extend the feature set and provide additional modem options for international coverage.

### **Product Change**

The following capabilities have been additionally introduced with the new product hardware revision BO2 in combination with NRSW 4.4:

- 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 (requires software key G)
- 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.

#### **Affected Products**

Current NB800 offering is not affected by this change. The product update is introduced with additional product variants:

Order Code	Product Description
NB800-LSu-GE	LTE +USB +GNSS +E-Mark
NB800-LWWtSu-GE	LTE +WLAN +BT/BLE +USB +GNSS +E-Mark
NB800-LWWtSu2Cm-GE	LTE +WLAN +BT/BLE +USB +2xCAN-passive +GNSS +E-Mark



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

## **Appendix - Rear Panel**

The antenna connectors have been moved.

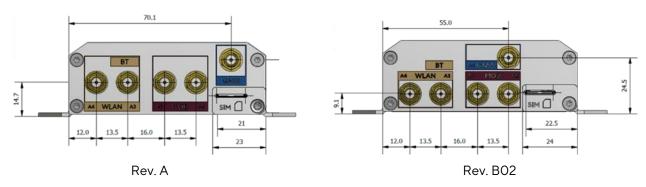


Figure 1: Rear panel changes (front panel remains unchanged)

# **Appendix - Modem Support**

NB800 Product Revision	Rev. A	Rev. BO2	Rev. BO2	Rev. BO2	
Modem Order Code	-	-L		-Lg	
Region	E٢	EMEA		APAC / LATAM	
LTE Bands	B1(2100), B2(1900), B3(1800), B4(AWS), B5(850), B7(2600), B8(900), B20(800)	B1(2100), B3(1800), B5(850), B7(2600), B8(900), B20(800)	, , , , , ,	B1(2100), B3(1800), 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)	181/2100N 82/1900N 1	
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 1: Comparison of modem features



### **Appendix - Type Label**

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

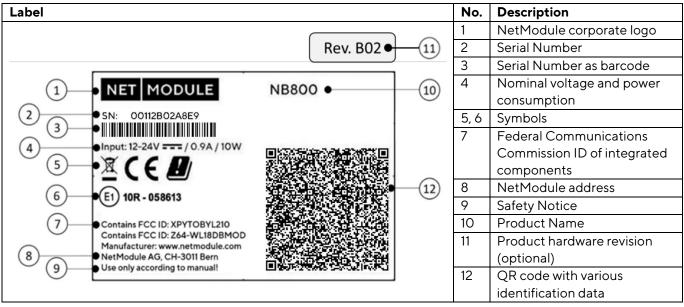


Table 2: New type label format.

# **Appendix - Product Change History**

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

Table 3: NB800 Product Change History