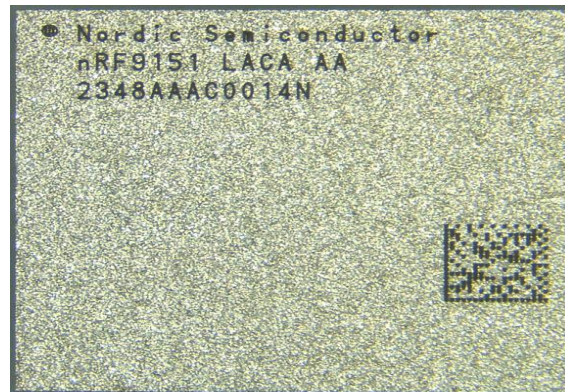


Wireless Device Technical Approval Notification - In Confidence

IT'S HOW
WE CONNECT



Manufacturer	Nordic Semiconductor
Model	nRF9161 nRF9151
Market Name	nRF9161 nRF9151
Device Type	Embedded Module
Nature of Approval	Maintenance Release
Status	Full Approval
Conditional item	None
Software detail	mfw_nrf91x1_2.0.2
OS detail	Not Applicable
4G Network	Supported
3G Network	Not Supported
2G Network	Not Supported
Roaming	Supports Roaming to Europe and the Americas. (Not tested as M2M devices not expected to roam)
Approval Re-assessment Date	14 January 2027
Main Device Strengths and Key Features	None
Main Device Weaknesses	None



Date	14 January 2025
To	Daryl Robins – Strategic Partnerships Devices COE Jouni Korhonen, Juha Heiskala – Nordic Semiconductor
CC	Akkalappa Thimmanna – Devices COE
From	Pradeep Alamuri Network Application and Cloud Converged Core Engineering Device Certification and Accreditation  Address: 91 Marsden Street Parramatta, NSW 2150 Australia Mobile: +61 417589562; (Insert 0 for +61 within Australia)

MAINTENANCE RELEASE

Purpose	The Main purpose of this Maintenance release is to incorporate internal bug fixes. For detailed information refer to the release notes under the “Reports and Documents” section.
New Issues Identified in MR	None

SOFTWARE INFORMATION

Device Software	mfw_nrf91x1_2.0.2
Software Interrogation Sequence	Using AT Command (AT+CGMR)
TAC	nRF9161-35269695, 35829984 nRF9151-35502593, 35875745
Locked to Telstra Network	No
SVN	4

HARDWARE INFORMATION

HARDWARE Version of Engineering Sample	nRF9161- nRF9161-LACA-ADA nRF9151- nRF9151-LACA-ADA
HARDWARE Version of production Sample	nRF9161- nRF9161-LACA-A0A nRF9151- nRF9151-LACA-A0A
Hardware Interrogation Sequence	Using AT Command (AT%HWVERSION)

RF PLATFORM

Chipset	nRF9121
Chipset Firmware Version	mfw_nrf91x1_2.0.2
Application Processor	ARM Cortex-M33
Application Processor Firmware Version	NCS SDK version 2.8.0, Zephyr RTOS v3.7.99 (Depends on the end customer)
RF Platform Used/Radio processor models	Integrated transceiver in nRF9121
Flash Chipset Type and Size	Integrated 1MB Flash and 256kB SRAM for application processor

ANTENNA

Is this device a blue tick?	There will not be a Data Device coverage performance rating.
External RF connection	To be determined by product integrating the module

RADIO TECHNOLOGY SUPPORT

eMTC	
Category	CAT M1
Duplex Operation Mode	Half Duplex
Coverage Enhancement Support	Yes (CE Mode A)
Connected Mode Mobility (CMM)	Yes
Power Saving Mode (PSM)	Yes (Disabled by default)
Extended Discontinuous Reception (eDRX)	Yes (Disabled by default)
Extended Access Barring (EAB)	Yes
NB -IOT	
Category	CAT NB2
Power Saving Mode (PSM)	Yes (Disabled by default)
Extended Discontinuous Reception (eDRX)	Yes (Disabled by default)
CloT Control Plane Optimisation	Yes
CloT User Plane Optimisation	No
2HARQ Process	Yes

BAND SUPPORT

4G Network	Band 3(1800), Band 28(700)
3G Network	Not applicable
2G Network	Not applicable

DATA THROUGHPUT CATEGORY

4G Network	CAT M1- Half Duplex (DL - 375 Kbps, UL - 375 Kbps) * CAT NB2 (DL - 127 Kbps, UL - 158.5 Kbps) *
3G Network	Not applicable

* Speed mentioned is network peak theoretical throughput

POWER CLASS

Power Class UMTS 850/ 2100	Not applicable
Power Class LTE 700/850/900/1800	3

AUDIO CODEC SUPPORTED

EFR	No
HR	No
AMR	No
AMR-WB	No
EVS	No

CONNECTIVITY

NFC	No
Wi-Fi	No
Bluetooth	No
DLNA	No

EXTRA FEATURE

External Memory	No
3G VOICE	No
4G Voice (VoLTE and E000 Call)	No
VoWiFi	No
Telstra Messaging (RCS)	No
4G Video calling (ViLTE)	No
SMS-MT	Yes
SMS-MO	Yes
MMS	No
GPS	Yes -Not tested
AGPS	No
PAP	Yes
CHAP	Yes
USIM-OTAC	Yes
Single Stack IPv6	Yes
Dual Stack IPv4v6	Yes
Single Stack IPv6 Tethering/Wi-Fi hotspot	No
Dual Stack IPv4V6 Tethering/Wi-Fi hotspot	No
Roaming PDN/PDP Type Option	No
Device OTAC	No
USIM Variant	Integrating product dependent
SIM Toolkit	Yes
BIP	Yes
FOTA	Yes
Simultaneous PDP	No
Multiple RAB Support	No

REPORTS AND DOCUMENTS

Vendor provided documents.

SAR	Not Applicable
SDoC	The Vendor has provided the SDoC report (Report attached below). Note that the vendor is responsible for the content of this report (and not Telstra)  sDOC.zip [Sdoc.ZIP]
Hardware declaration document	 Hardware declaration.zip [Hardware_declaration_.zip]
GCF/ PTCRB	nRF9161- GCF-CC 3.90.0 nRF9151- GCF-CC 3.92.0
Additional Device Specification	 Product sheet.zip [Product_Sheet.zip]
Release notes	 mfw_nrf91x1_2.0.2_release_notes.txt [mfw_nrf91x1_2.0.2_release_notes]
Vendor Customisation File	 Customisation docs.zip [Customisation docs.zip]

TELSTRA documents

Pre-configuration Document	MSR0295_v78
Issues Register	 Nordic Semiconductor_nRF91x1-family (nRF91x1 family)_Updated Issue Register.xlsx [Nordic Semiconductor_nRF91x1-family (nRF91x1 family)_Updated Issue Register.xlsx]

ENDORSEMENT AND SIGN-OFF

Device Certification and Accreditation Endorsement

Domain	Pradeep Alamuri for	TPO – Device Certification & Approval
Engineering	Peter Halstead	Group Owner – Converged core Engineering

CONDITIONS OF APPROVAL

- Approval is provided based on the hardware and software variants submitted to, tested by, and technically approved by Telstra.
- Any changes to hardware and software are to be formally submitted to Telstra in writing prior to implementation so Telstra can evaluate and/or validate the impact of the change/s
- Approval is given on the basis that future software upgrades will have updated SVN values.
- Compatibility status is given on tests performed, manufacturers declaration of compliance, and change information on existing compatible products.
- Data devices Approval status will be reassessed two (2) years after initial Telstra Technical Approval.
 - Re-assessment Date: 14 January 2027

Nordic to address the following issue in the Next Maintenance Release.
All issues have an acceptance from Telstra Engineering/Devices COE

Condition No	Issue No	Issue description	End Customer / Network Impact
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None

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