



To **Nordic Semiconductor**
Forward to Jouni.Korhonen, Yrjö Kaipainen, Jani Mäenpää, Pär Håkansson, Peder Rand
From Andreas Utrap, Miguel Rodriguez (Deutsche Telekom AG)
Contact E-Mail: miguel.rodriguez@telekom.de, andreas.utrap@telekom.de
Date 14th February, 2020
Subject **Certification for Nordic Semiconductor nRF9160 Communication Module / nRF9160 Development Kit**

Dear Nordic Semiconductor Team,

Deutsche Telekom AG issues a **re-certification** for your **nRF9160 communication module** and **nRF9160 Dev Kit**:

Concept Class	LPWA-enabled, Multi-Mode module (NB-IoT, LTE-M)
Deutsche Telekom (DT) Certification Date	14.02.2020
DT Responsible Entity / Contact	ITS-IVA / Miguel Rodriguez
Certified Deutsche Telekom Affiliates	NB-IoT (Full certification): AT, CZ, DE, HR, NL, PL, SK* LTE-M (Limited certification): DE*
OEM Firmware Version	mfw_nrf9160_1.1.0
OEM Hardware Version	E218

* Please refer to the OEM Certification Report for Deutsche Telekom Affiliate Country Codes.

NarrowBand IoT (NB-IoT):

Both products are fully certified for 3GPP™ NB-IoT.

LTE Category M1 (LTE-M):

The condition for this LTE-M limited certification is listed below. Until issue topic is addressed, a full technical certification for LTE-M is not granted by Deutsche Telekom. For more details, please refer to Chapter V of the certification report.

- Uplink UDP throughput at Coverage Enhancement Level 0 ("outdoor" coverage) is less than expected

There are no restrictions to the deployment of either product for both technologies on Deutsche Telekom networks. There is verified support for the GSMA TS.34 Radio Policy Manager feature, which ensures no-harm to network / communication efficiency.

Kind Regards,
Deutsche Telekom AG

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