Notified Body

TÜV Rheinland
LGA Products GmbH

Tillystraße 2
90431 Nürnberg
notified by the
Bundesnetzagentur für Elektrizität, Gas,
Telekommunikation, Post und Eisenbahnen

under No. 0197

herewith issues an

EU-Type Examination Certificate

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED)
for compliance with the essential requirements of this directive

Registration Number:	RT 60123862 0001
Evaluation Report Nr.:	17080302 001
Manufacturer:	Intel Mobile Communications SAS 425 Rue de Goa - Le Cargo B6 - B7 06600 Antibes France
Product:	Radio Equipment Dual Band Wireless WLAN adapter including BT
Type Identification:	9461NGW
Essential requirements:	2014/53/EU (RED) Article 3.1a Health Article 3.1a Electrical Safety Article 3.1b EMC Article 3.2 Radio spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.

This certificate consists of this page and Annex I.

Validity of the certificate is specified in the Annex I.

TÜV Rheinland LGA Products GmbH Zertifizierungsstelle

Notified Body

Pieter de Beer

Date 03.10.2017

Equipment

Product	:	Wireless Adapter
Trademark	:	Intel® Wireless-AC 9461
Identification	:	9461NGW
Product description		Intel® Wireless-AC 9461 adapter Including Bluetooth 5.0 (BR/EDR/BLE)

System description

Frequency band(s) of operation	:	2.4 GHz and 5 GHz bands
Operating frequency	:	2400 – 2483.5 MHz 5150 – 5250 MHz, 5250 – 5350 MHz 5470 – 5725 MHz, 5725 – 5875 MHz
Channel spacing / bandwidth	:	2.4GHz: 802.11b/g/n: 5 MHz / BT: 1 MHz / BLE:2 MHz bandwidth: 20MHz / 40 MHz; BT/BLE: 1 MHz 5 GHz: 802.11a/n/ac: 20,40,80 MHz
RF output power	:	20 dBm (2400-2485 MHz) IEEE 802.11 b/g/n & BT 10 dBm (2400-2485 MHz) BLE 23 dBm (5150-5725 MHz) IEEE 802.11 a/n/ac 13.98 dBm (5725-5875 MHz) IEEE 802.11 a/n/ac
Type of modulation	:	2.4GHz: DSSS/OFDM/FHSS/GFSK / π/4-DQPSK/ 8-PSK 5 GHz: OFDM
Type of antenna :		Referenced antenna is PIFA type
Mode of operation (simplex / duplex)	:	Duplex (Tx/Rx)
Duty cycle (access protocol, if applicable)	:	As in: IEEE 802.11 a/b/g/n/ac,
Version of firmware/software used		Software Intel® PROSet/Wireless WiFi Software 20.x and backwards compatible with previous versions for WiFi/BT

Technical Documentation

The following identified Technical Documentation has been reviewed and has been used to determine if the design of the mentioned radio equipment meets the essential requirements:

Technical File Identification	RED_TD_9461NGW
Version	Version 0, First Issue
Issue date:	15-09-2017
Other supporting evidence	Not applicable

The following information is available in the technical Documentation:

User information and installation instructions	☒
Block diagram	☒
Circuit diagram	☒
Part list	☒
PCB layout	☒
Photo documentation	☒
Versions of firmware/software used	☒
Statement of compliance with art. 10.2 it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.	☒
The technical Documentation included an analysis and assessment of the risk(s) as required by Annex III, Module B clause 3 (c).	☒

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Conformity Assessment

Applied harmonised standards (Referred to the publication of harmonised standards in the official Journal of the EU at the time of issuance)			
Article	**Standard**	**Test Report No.**	**Issued by**
3.1a Health			
3.1a Safety			
3.1b EMC			
3.2 Radio	EN 300 328 V2.1.1 (WLAN +BT) EN 301 893 V1.8.1 (Adaptivity) EN 301 893 V2.1.1 (Rx Blocking) EN 300 440-2 V1.4.1	170727-01.TR12/13/14 170727-01.TR19/20 170727-01.TR15/16 170727-01.TR21	Intel Mobile Communications SA Intel Mobile Communications SA Intel Mobile Communications SA Intel Mobile Communications SA
3.3 Others			

Applied non-harmonised standards			
Article	**Standard**	**Test Report No.**	**Issued by**
3.1a Health	EN 50566:2013	170727-01.TR18	Intel Mobile Communications SA
3.1a Safety	EN 62368-1:2014	Report No. 338512	Nemko USA Inc.
3.1b EMC	EN 301 489-1 V2.2.0 (draft) EN 301 489-17 V3.2.0 (draft) EN 55032:2015	17080302.e01	TÜV Rheinland Nederland B.V
3.2 Radio	EN 300 440 V2.1.1 (Rx Blocking)	170727-01.TR17	Intel Mobile Communications SA
3.3 Others			

Other solutions, adopted to meet the essential requirements			
Article	**Standard**	**Test Report No.**	**Issued by**
3.1a Health			
3.1a Safety			
3.1b EMC			
3.2 Radio			
3.3 Others			

Rationale for applied non-harmonised standards or other solutions:

- Due to the absence of harmonized standards for safety, health and EMC the latest ETSI EN and CENELEC standards have been used. The differences between R&TTE versions and candidate versions under the RED have been re-assessed and additional measurements have been reviewed. Selections of actions and standards to cover all the essential requirements are also based on the Risk assessment of the Manufacturer.

Remarks:

- This Type Examination Certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.
- This Type Examination Certificate only relates to the assessment of technical documentation to verify that the technical design of radio equipment meets the essential requirements of the RED 2014/53/EU and will not show compliance with essential requirements of other possible applicable EU Directives.
- The manufacturer has declared in compliance with art. 10.2 that the Radio Equipment can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- Validity of this Type Examination Certificate is limited to the versions of the applied standard. If versions of standards change or modifications are made to the product, this Certificate will be invalidated.

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30.01.2017