

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 60148671 0001

Evaluation Report Nr.: 20021401 003

Manufacturer: Intel Corporation SAS
425 Rue de Goa - Le Cargo B6-B7
06600 Antibes
France

Product: Radio Equipment
Wireless adapter

Type Identification: 3168NGW

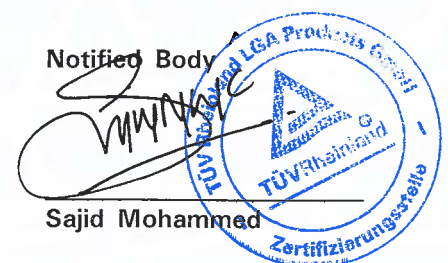
Essential requirements: 2014/53/EU (RED)
Article 3.1a Health
Article 3.1a Electrical Safety
Article 3.1b EMC
Article 3.2 Radio spectrum

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.

Date 29.04.2020



Sajid Mohammed

Equipment

Product	:	Wireless Adapter
Trademark	:	Intel® Wireless-AC 3168
Identification	:	3168NGW
Product description	:	Wireless Adapter
System description		
Frequency band(s) of operation	:	2.4 GHz and 5 GHz bands
Operating frequency	:	2400 – 2485 MHz 5150 – 5250 MHz, 5250 – 5350 MHz 5470 – 5725 MHz, 5725 – 5850 MHz
Channel spacing / bandwidth	:	2.4GHz: 802.11b/g/n: 5 MHz / BT: 1 MHz bandwidth: 20MHz / 40 MHz 5 GHz: 802.11 a/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 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 following 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_3168NGW
Version	Revision 4
Issue date:	12.06.2019
Other supporting evidence	Not applicable

The following information is available in the technical Documentation:

User information and installation instructions	<input checked="" type="checkbox"/>
Block diagram	<input checked="" type="checkbox"/>
Circuit diagram	<input checked="" type="checkbox"/>
Part list	<input checked="" type="checkbox"/>
PCB layout	<input checked="" type="checkbox"/>
Photo documentation	<input checked="" type="checkbox"/>
Versions of firmware/software used	<input checked="" type="checkbox"/>
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.	<input checked="" type="checkbox"/>
The technical Documentation included an analysis and assessment of the risk(s) as required by Annex III, Module B clause 3 (c).	<input checked="" type="checkbox"/>



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 V2.2.2 (WLAN + BT)	190903-01.TR12 170209-01.TR05 rev 03 170209-01.TR05 rev 03 180219-01.TR07
		EN 301 893 V2.1.1 EN 301 893 V2.1.1 (adaptivity)	Intel Corporation SAS Intel Mobile Communications SA
3.3	Others		

Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a	Health	EN 50566:2013	160107-01.TR13
3.1a	Safety	EN 62368-1:2014	324816
3.1b	EMC	EN 301 489-1 V2.2.0 (draft) EN 301 489-17 V3.2.0 (draft)	17011807-17.e01
3.2	Radio	EN 300 440 V2.2.1	160107-01.TR12 rev 02 170209-01.TR16 rev 03
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. Selections of actions and standards to cover all the essential requirements are also based on the Risk assessment of the Manufacturer..



Remarks:

- When installing this radio module permanently into a host product to create a new radio equipment device; the manufacturer responsible for placing the final radio product on the market in the EU must assess if the combination of this radio module and the host product complies with the essential requirements of the RE Directive 2014/53/EU.
- 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.

