Notified Body TÜV Rheinland LGA Products GmbH

Tillvstraße 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 60118683 0001

Evaluation Report Nr.:

17011906 001

Manufacturer:

Intel Mobile Communications SAS

Le Navigator B

505 Routes des Lucioles

06905 Sophia Antipolis Cedex

France

Product:

Radio Equipment

Dual Band Wireless WLAN adapter including Dual Mode BT

Type

Identification:

3160NGW

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.

d.d. 26-06-2017 Version 2.1 Certificate Registration No.: 60118683 0001

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Equipment

Product

Wireless Adapter

Trademark

Intel®

Identification

3160NGW

Product description Intel® Dual Band Wireless-AC 3160 adapter

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Including Dual Mode Bluetooth 2.1 (+ EDR), 3.0 (+HS), 4.0 (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

Channel spacing / bandwidth

13 Ch for 2,4 GHz (5MHz overlap): 20/40 MHz 24 Ch for 5 Ghz (20MHz non overlap): 20/40/80/MHz BT: 79 Channels (1MHz wide) BLE 3/37 Channels

RF output power

20 dBm max. (2400 - 2483.5 MHz) IEEE802.11 b/g/n mode

10 dBm max. (2400 - 2483.5 MHz) Bluetooth/BLE

23 dBm max. (5150 - 5725 MHz) IEEE802.11 a/n/ac mode

Type of modulation

2.4GHz: DSSS/OFDM/FHSS

5 GHz: OFDM

BT 2.1 (+ EDR), 3.0 (+HS), 4.0 (BLE): GFSK

Type of antenna

Dual band antenna (1 x 1) 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,

BT 2.1 (+ EDR), 3.0 (+HS), 4.0 (BLE)

Version of firmware/software used

Software Intel® PROSet/Wireless WiFi Software 19.x and

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 3160NGW

Version

Version 0, First Issue

Issue date:

20-03-2017

Other supporting evidence

Not applicable

The following information is available in the technical

Documentation:

User information and installation instructions

X

Block diagram

X

Circuit diagram Part list

X X

PCB layout

X

Photo documentation

X \boxtimes

Versions of firmware/software used Statement of compliance with art. 10.2 it can be operated in at least one Member State without

 \bowtie

X

infringing applicable requirements on the use of radio

The technical Documentation included an analysis and assessment of the risk(s) as required by Annex III,

Module B clause 3 (c).



Version 2.1 d.d. 26-06-2017

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Tipizierungsst

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Conformity Assessment

Articl	е	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) EN 300 328 V2.1.1 (BT) EN 301 893 V2.1.1 (Rx blocking) EN 301 893 V1.8.1	17011806.r04a 17011806.r04c 17011806.r04b 15121701.r04b	TÜV Rheinland Nederland B.V
3.3	Others			

Article		Standard	Test Report No.	Issued by	
3.1a	Health	EN 62311:2008	39151RRF002	AT4 wireless, S.A.	
3.1a	Safety	EN 62368-1:2014	Report No. 324820	Nemko USA Inc.	
3.1b	EMC	EN 301 489-1 V2.2.0 (draft) EN 301 489-17 V3.2.0 (draft)	17011807-6.e01	TÜV Rheinland Nederland B.V	
3.2	Radio				
3.3	Others				

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..
- Previous assessments under the R&TTE have been validated with letters of opinion with reference 13070902. The manufacturer has included these previous evaluations as part of the Technical Documentation

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.