

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 60120511 0001

Evaluation Report Nr.: 17011920 001

Manufacturer: Intel Mobile Communications SAS
Le Navigator B
505 Routes des Lucioles
06905 Sophia Antipolis Cedex
France

Product: Radio Equipment
Intel® Wireless 60 GHz adapter (Intel® Wireless Gigabit 11000)

Type Identification: 11000D2W , 11000D2W LC

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 26.06.2017



Notified Body


Pieter de Beer

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Equipment

Product : WiGig, 2x2 PCIe M.2 adapter card
Trademark : Intel®
Identification : 11000D2W
Product description Intel® Wireless 60 GHz adapter (Wireless Gigabit 11000)
System description
Frequency band(s) of operation : 60 GHz bands
Operating frequency : 57-64 GHz
Channel spacing / bandwidth : 60GHz: spacing 2.16GHz / bandwidth 2.5GHz
RF output power (EIRP) : 25 dBm max. (57-64GHz) IEEE 802.11ad mode
Type of modulation : 60 GHz: OFDM
Type of antenna : Referenced antenna is Intel Wireless Gigabit Antenna - M 10042R (Array Antenna Model No: 10042RRFW)
Mode of operation (simplex / duplex) : Duplex (Tx/Rx)
Duty cycle (access protocol, if applicable) : As in: IEEE 802.11 ad,
Version of firmware/software used : Software Intel® Wireless Dock Manager 3.x and previous versions (Wigig)

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_11000D2W
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
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).



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 302 567 V1.2.1	15120403.TR01	Intel Mobile Communications SA
3.3 Others			

Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a Health			
3.1a Safety	EN 62368-1:2014	Report No. 324815	Nemko USA Inc.
3.1b EMC	EN 301 489-1 V2.2.0 (draft) EN 301 489-17 V3.2.0 (draft)	17011807-20.e01	TÜV Rheinland Nederland B.V
3.2 Radio	EN 302 567 V2.0.22 (extra Rx tests + adaptivity)	170209-01.TR10	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	Council Recommendation 1999/519/EC (Exposure on 60GHz compliance at 1.2 mm and above)	11000D2WRFE rev 1.2	Intel Mobile Communications SA
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 15121601 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.

