

Approved Body Type Examination Certificate

Manufacturer company name: Intel Corporation SAS
Manufacturer address: 425 Rue de Goa – Le Cargo B6-B7
06600 Antibes
France
Description of the radio equipment: Intel® Wireless-AC 9560
Trade /brand name or registered trademark: Intel®
Model/type indication: 9560D2W, version: 802.11ac wave2, 2x2, Bluetooth® 5, PCIe, USB, M.2 1216
Software version: Intel® PROSet / Wireless WIFI version 20.x and subsequent versions
Hardware version: TL04c
Frequency bands of operation: 2400 MHz to 2483.5 MHz
5150 MHz to 5350 MHz
5470 MHz to 5725 MHz
5725 MHz to 5875 MHz
Technical documentation (TD) reference: RED_TD_9560D2W_rev4
ACB project number: ATCB029204
Certificate number: ATCB026583, issue 2

ACB, Inc. is designated as an Approved Body under the
U.S.-UK Mutual Recognition Agreement (Telecommunications Equipment & EMC Annexes)

ACB, Inc.
Approved Body Number 1588
313 Park Avenue Suite 300
Falls Church, VA 22046, USA

In the opinion of ACB, Inc., the examination of the technical documentation as drawn up by the manufacturer demonstrates that the essential requirements of Regulation 6 (1)(a), Regulation 6 (1)(b) and Regulation 6 (2) of the Radio Equipment Regulations 2017 (S.I. No. 2017/1206) have been met. The conformity assessment on the radio equipment listed above and as described in Annex 1 to this type examination certificate has been carried out in accordance with Schedule 3, Module B, of the Radio Equipment Regulations 2017 (S.I. No. 2017/1206). This type examination certificate relates only to the documents as provided to ACB, Inc. A list of documentation forming the basis for the type examination is provided in Annex 2 to this type examination certificate.



Approved Body: *P.A.J.M. Robben*

7 May 2023

Date

Note: This is a re-issue of the type examination certificate dated 22 July 2022 in which typographical errors have been corrected. This re-issue replaces the type examination certificate dated 22 July 2022.



Annex 1 to type examination certificate for the Radio Equipment Regulations 2017 (S.I. No. 2017/1206)

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The radio equipment as described and documented in the technical documentation as drawn up by the manufacturer is a wireless LAN module which supports the IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11a and IEEE 802.11ac standards. This wireless LAN module also supports Bluetooth® 5 radio technologies.

The radio equipment has been assessed for use in an ambient temperature range of -10 °C to +70 °C and for use with an input voltage of 3.3 V DC. The radio equipment has been assessed for a body worn RF exposure condition and where the resulting SAR value is 0.99 W/kg (10g). The radio equipment has been assessed assuming that each antenna port is connected to an external antenna having a peak gain of:

2400 MHz to 2483.5 MHz: 3 dBi
5150 MHz to 5350 MHz: 5 dBi
5470 MHz to 5725 MHz: 5 dBi
5725 MHz to 5875 MHz: 5 dBi

When installing this radio equipment into a host product to create a new radio equipment device: the manufacturer responsible for placing the new radio equipment device on the market in GB must assess if the combination of this radio equipment and the host product complies with the essential requirements of the Radio Equipment Regulations 2017 (S.I. No. 2017/1206).

Details of operation:

Description of service: Bluetooth Basic Rate + EDR
Transmit frequency: 2402 MHz to 2480 MHz
Receive frequency: 2402 MHz to 2480 MHz
Modulation: GFSK, $\pi/4$ DQPSK, 8DPSK
Transmit power: 13.1 dBm, e.i.r.p.

Description of service: Bluetooth Low Energy (BLE)
Transmit frequency: 2402 MHz to 2480 MHz
Receive frequency: 2402 MHz to 2480 MHz
Modulation: GFSK
Transmit power: 10.0 dBm, e.i.r.p.

Description of service: IEEE 802.11b/g/n WLAN
Transmit frequency: 2412 MHz to 2472 MHz (20 MHz)
2422 MHz to 2462 MHz (40 MHz)
Receive frequency: 2412 MHz to 2472 MHz (20 MHz)
2422 MHz to 2462 MHz (40 MHz)
Modulation: DSSS (DBPSK, DQPSK, CCK), OFDM (BPSK, QPSK, 16QAM, 64QAM)
Transmit power: 19.8 dBm, e.i.r.p.



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Description of service: IEEE 802.11a/n/ac WLAN
Transmit frequency: 5180 MHz to 5320 MHz (20 MHz)
5190 MHz to 5310 MHz (40 MHz)
5210 MHz, 5290 MHz (80 MHz)
5250 MHz (160 MHz)
Receive frequency: 5180 MHz to 5320 MHz (20 MHz)
5190 MHz to 5310 MHz (40 MHz)
5210 MHz, 5290 MHz (80 MHz)
5250 MHz (160 MHz)
Modulation: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Transmit power: 22.9 dBm, e.i.r.p.

Description of service: IEEE 802.11a/n/ac WLAN
Transmit frequency: 5500 MHz to 5700 MHz (20 MHz)
5510 MHz to 5670 MHz (40 MHz)
5530 MHz, 5610 MHz (80 MHz)
5570 MHz (160 MHz)
Receive frequency: 5500 MHz to 5700 MHz (20 MHz)
5510 MHz to 5670 MHz (40 MHz)
5530 MHz, 5610 MHz (80 MHz)
5570 MHz (160 MHz)
Modulation: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Transmit power: 23.0 dBm, e.i.r.p.

Description of service: IEEE 802.11a/n/ac WLAN
Transmit frequency: 5745 MHz to 5825 MHz (20 MHz)
5755 MHz to 5795 MHz (40 MHz)
5775 MHz (80 MHz)
Receive frequency: 5745 MHz to 5825 MHz (20 MHz)
5755 MHz to 5795 MHz (40 MHz)
5775 MHz (80 MHz)
Modulation: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Transmit power: 13.97 dBm, e.i.r.p.



Annex 2 to type examination certificate for the Radio Equipment Regulations 2017 (S.I. No. 2017/1206)

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1	Test report:	Report number:	Dated:
	EMC	17092501.e01	06 November 2017
	Radio	170919-03.TR12	01 December 2017
	Radio	170919-03.TR13	01 December 2017
	Radio	170919-03.TR14	01 December 2017
	Radio	170919-03.TR15	23 March 2018
	Radio	170919-03.TR16	23 March 2018
	Radio	170919-03.TR17	04 June 2019
	Radio	190903-01.TR20	27 November 2019
	Radio	170919-03.TR21	04 June 2019
	RF safety	170919-03.TR18	04 December 2017
	Product safety	463591	31 March 2022

2 Technical documentation provided:

Antenna details	Regulation 14 information	Assembly drawing(s)
Block diagram	Circuit diagram/schematics	External photographs
Internal photographs	Label drawing/location	Operational description
Parts list/bill of materials	PCB layout	Production quality assurance
Risk assessment document	Software version declaration	Test reports
Test setup photographs	User manual	Declaration of conformity

3 Standards used to demonstrate conformity with the essential requirements of the Radio Equipment Regulations 2017 (S.I. No. 2017/1206):

Radio spectrum (Regulation 6 (2)):	EN 300 328 V2.2.2 EN 300 440 V2.2.1	EN 301 893 V2.1.1
EMC (Regulation 6 (1)(b)):	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4	EN 301 489-3 V2.1.1
RF safety (Regulation 6 (1)(a)):	EN 50566: 2017	
Product safety (Regulation 6 (1)(a)):	EN IEC 62368-1: 2020 + EN IEC 62368-1: 2020/A11: 2020	

Note: Essential requirements of Regulation 6 (3) of the Radio Equipment Regulations 2017 (S.I. No. 2017/1206) not listed above have been deemed as not being applicable to the radio equipment as described in this type examination certificate.



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4 Additional information:

The conditions for use of the radio spectrum for license exempt short range devices shall be based on the relevant interface definitions in IR 2030 - UK Interface Requirements 2030 of 23 March 2023.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 11: Manufacturers shall keep the technical documentation and the declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 12 (1): Manufacturers shall ensure that radio equipment which they have placed on the market bears a type, batch or serial number or other element allowing its identification, or, where the size or nature of the radio equipment does not allow it, that the required information is provided on the packaging, or in a document accompanying the radio equipment.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 12 (2)-(5): Manufacturers shall indicate on the radio equipment their name, registered trade name or registered trade mark and the postal address at which they can be contacted or, where the size or nature of radio equipment does not allow it, on its packaging, or in a document accompanying the radio equipment. The address shall indicate a single point at which the manufacturer can be contacted. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 13 (1): Manufacturers shall ensure that the radio equipment is accompanied by instructions and safety information in a language which can be easily understood by consumers and other end-users, as determined by the UK. Instructions shall include the information required to use radio equipment in accordance with its intended use. Such information shall include, where applicable, a description of accessories and components, including software, which allow the radio equipment to operate as intended. Such instructions and safety information, as well as any labelling, shall be clear, understandable and intelligible.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 13 (2): The following information shall also be included in the case of radio equipment intentionally emitting radio waves:

- (a) frequency band(s) in which the radio equipment operates;
- (b) maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 13 (3): Manufacturers shall ensure that each item of radio equipment is accompanied by a copy of the declaration of conformity or by a simplified declaration of conformity drawn up in accordance with regulation 43 (simplified declaration of conformity). Where a simplified declaration of conformity is provided, it shall contain the exact internet address where the full text of the declaration of conformity can be obtained.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 14: In cases of restrictions on putting into service or of requirements for authorization of use, information available on the packaging shall allow the identification of the geographical area within the UK where restrictions on putting into service or requirements for authorization of use exist. Such information shall be completed in the instructions accompanying the radio equipment.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 44 (1)-(2): The UK marking shall be affixed visibly, legibly and indelibly to the radio equipment or to its data plate, unless that is not possible or not warranted on account of the nature of radio equipment. The UK marking shall also be affixed visibly and legibly to the packaging.



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Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Regulation 44 (3): On account of the nature of radio equipment, the height of the UK marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

Radio Equipment Regulations 2017 (S.I. No. 2017/1206), Schedule 7 (2): The manufacturer shall inform the approved body that holds the technical documentation relating to the type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of the Radio Equipment Regulations 2017 (S.I. No. 2017/1206) or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original type examination certificate.

Non-designated standards were used to demonstrate conformity with (parts of) the essential requirements in Regulation 6 (1)(a), Regulation 6 (1)(b) and Regulation 6 (2).

In accordance with Approved Body guidance; if there are no changes, an Approved Body type examination certificate has a validity of 10 years from the date of issue.

5 Contact information:

For contact with ACB or questions regarding this type examination certificate:

Web: www.acbcert.com

<http://acbcert.com/contact>

Tel.: (+1) 703 847 4700

