

# Notified Body

## EU-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® Wi-Fi 6 AX201  
Trade /brand name or registered trademark: Intel®  
Model/type indication: AX201NGW, version: 802.11ax, 2x2, Bluetooth® 5, M.2 2230  
Software version: Intel® PROSet / Wireless WIFI version 20.x and subsequent versions  
Hardware version: TL10B  
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\_AX201NGW\_rev2  
ACB project number: ATCB029407  
Certificate number: ATCB029407, issue 1

ACB, Inc. is designated as a Notified Body under the  
U.S.-EU Mutual Recognition Agreement for the Radio Equipment Directive 2014/53/EU

**ACB, Inc.**  
**Notified Body Number 1588**  
313 Park Ave, 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 Article 3.1a, Article 3.1b and Article 3.2 of the Radio Equipment Directive 2014/53/EU have been met. The conformity assessment on the radio equipment listed above and as described in Annex 1 to this EU-type examination certificate has been carried out in accordance with Annex III, Module B, of the Radio Equipment Directive 2014/53/EU. This EU-type examination certificate relates only to the documents as provided to ACB, Inc.

A list of documentation forming the basis for the EU-type examination is provided in  
Annex 2 to this EU-type examination certificate.



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

13 September 2022

Date



## Annex 1 to EU-type examination certificate for the Radio Equipment Directive 2014/53/EU

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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, IEEE 802.11ac and IEEE 802.11ax 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 +60 °C (5150 MHz to 5350 MHz and 5470 MHz to 5725 MHz in MIMO mode) / -10 °C to +70 °C (all other supported modes and frequency ranges) and for use with a nominal 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 1.12 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:

Description	Transmitter chain A (main)	Transmitter chain B (aux)
Manufacturer	SkyCross	SkyCross
Antenna type	PIFA antenna	PIFA antenna
Antenna peak gain	+3 dBi	+3 dBi

5150 MHz to 5350 MHz, 5470 MHz to 5725 MHz and 5725 MHz to 5875 MHz:

Description	Transmitter chain A (main)	Transmitter chain B (aux)
Manufacturer	SkyCross	SkyCross
Antenna type	PIFA antenna	PIFA antenna
Antenna peak gain	+5 dBi	+5 dBi

The radio equipment has been tested in order to ensure that the radio equipment remains compliant with the essential requirements of the Radio Equipment Directive 2014/53/EU when an antenna, or antennas, with lower peak gain as listed above is/are used in combination with the radio equipment. The absolute maximum allowable increase in conducted RF output power, based on an equivalent or larger decrease in peak antenna gain, is specified as being:

2400 MHz to 2483.5 MHz: +2 dB (for IEEE 802.11b/g/n/ax modes only)  
5150 MHz to 5350 MHz: +3 dB  
5470 MHz to 5725 MHz: +3 dB  
5725 MHz to 5875 MHz: +7 dB



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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 the EU must assess if the combination of this radio equipment and the host product complies with the essential requirements of the Radio Equipment Directive 2014/53/EU.

### 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: 13.6 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: 9.7 dBm, e.i.r.p.

Description of service: IEEE 802.11b/g/n/ax 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/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 1024QAM, 1024QAM)  
Transmit power: 20.0 dBm, e.i.r.p.



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Description of service: IEEE 802.11a/n/ac/ax 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/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)  
Transmit power: 23.0 dBm, e.i.r.p.

Description of service: IEEE 802.11a/n/ac/ax 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/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)  
Transmit power: 23.0 dBm, e.i.r.p.

Description of service: IEEE 802.11a/n/ac/ax 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/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)  
Transmit power: 13.95 dBm, e.i.r.p.



## Annex 2 to EU-type examination certificate for the Radio Equipment Directive 2014/53/EU

Date of issue: 13 September 2022  
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Technical documentation (TD) reference: RED\_TD\_AX201NGW\_rev2  
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1	Test report:	Report number:	Dated:
	EMC	18062201.e01	12 September 2018
	Radio	180717-02.TR12	17 December 2018
	Radio	180717-02.TR13	23 January 2019
	Radio	180717-02.TR14	18 January 2019
	Radio	180717-02.TR15	17 December 2018
	Radio	180717-02.TR16	17 June 2020
	Radio	180717-02.TR17	13 June 2019
	Radio	180717-02.TR26	27 November 2019
	RF safety	180717-02.TR18	13 December 2018
	Product safety	463591	31 March 2022

### 2 Technical documentation provided:

Antenna details	Article 10.2 declaration	Article 10.10 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 applied in full or in part or other solutions adopted to demonstrate conformity with the essential requirements of the Radio Equipment Directive 2014/53/EU:

Radio spectrum (Article 3.2):	EN 300 328 V2.2.2 EN 300 440 V2.2.1	EN 301 893 V2.1.1
EMC (Article 3.1b):	EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.1	EN 301 489-17 V3.2.4
RF safety (Article 3.1a):	EN 50566: 2017	
Product safety (Article 3.1a):	EN IEC 62368-1: 2020 + EN IEC 62368-1: 2020/A11: 2020	

Note: Essential requirements of Article 3 of the Radio Equipment Directive 2014/53/EU not listed above have been deemed as not being applicable to the radio equipment as described in this EU-type examination certificate.





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### 4 Additional information:

The conditions for use of the radio spectrum in the 5150-5250 MHz, 5250-5350 MHz and 5470-5725 MHz frequency bands shall be based on EC Decision (EU) 2022/179 of 8 February 2022.

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Article 10.6: 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 Directive 2014/53/EU, Article 10.7: 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 Directive 2014/53/EU, Article 10.8: 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 Member State concerned. 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.

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 Directive 2014/53/EU, Article 10.9: Manufacturers shall ensure that each item of radio equipment is accompanied by a copy of the EU declaration of conformity or by a simplified EU declaration of conformity. Where a simplified EU declaration of conformity is provided, it shall contain the exact internet address where the full text of the EU declaration of conformity can be obtained.

Radio Equipment Directive 2014/53/EU, Article 10.10: 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 Member States or the geographical area within a Member State 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 Directive 2014/53/EU, Article 19.2: On account of the nature of radio equipment, the height of the CE marking affixed to radio equipment may be lower than 5 mm, provided that it remains visible and legible.

Radio Equipment Directive 2014/53/EU, Article 20.1: The CE 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 CE marking shall also be affixed visibly and legibly to the packaging.



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Radio Equipment Directive 2014/53/EU, Annex III, Module B.7: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

This Notified Body EU-type examination certificate has a validity of 10 years from the date of issue.

As per guidance in REDCA document TGN 29 v2.0a of March 2020 this EU-type examination certificate automatically expires in the following cases:

- Changes in the product identification and/or the manufacturer's identification at stated on this EU-type examination certificate (without any technical change);
- Technical modifications in the product(s) covered by this EU-type examination certificate that affect the compliance of the product(s) with the essential requirements of the Radio Equipment Directive 2014/53/EU;
- Revisions and/or updates in the (harmonized) standards applied in full or in part or other solutions adopted as listed in this EU-type examination certificate which affect the demonstration of compliance of the product(s) with the essential requirements of the Radio Equipment Directive 2014/53/EU.

To avoid the automatic expiration of the EU-type examination certificate, any of the three cases above would require a re-assessment of (parts of) the updated technical documentation of the product(s) and an update/re-issue of the EU-type examination certificate by the Notified Body.

### 5 Contact information:

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

Web: [www.acbcert.com](http://www.acbcert.com)

<http://acbcert.com/contact>

Tel.: (+1) 703 847 4700

