



# EU-Type Examination Certificate

with respect to the presumption of  
Compliance of a product with the essential requirements of

## RE DIRECTIVE 2014/53/EU

Certificate Number	CS35769
Certificate Holder	Particle Industries, Inc
Address	325 9th St, San Francisco, CA 94103 USA, 415-319-1553
Manufacturer	Particle Industries, Inc
Address	325 9th St, San Francisco, CA 94103 USA, 415-319-1553
Product Type/Description	Photon 2
Trade Name	Particle
Model Number	PHN2
Product Identification Element	PHN2

Applied / Complied Harmonized Standards		Complied
RE Directive 2014/53/EU, Article 3(1)(a) ■ Safety	EN IEC 62368-1:2020+A11:2020	Y
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health	EN 62479:2010, EN 50663:2017 EN IEC 62311:2020, EN 50665:2017	Y
RE Directive 2014/53/EU, Article 3(1)(b) ■ EMC	EN 301 489-1 V2.2.3, EN 301 489-3 V2.1.1 EN 301 489-17 V3.2.4	Y
RE Directive 2014/53/EU, Article 3(2) ■ Radio	EN 300 328 V2.2.2, EN 300 440 V2.2.1, EN 301 893 V2.1.1	Y
RE Directive 2014/53/EU, Article 3(3) ■ Certain categories	-	NA

\*Note: This is a non-harmonized radio standard accepted by the RED (Radio Equipment Directive).

Authorized By:

*Darren Shih*

**Darren Shih, Senior Manager**

Issue Date: June 1, 2023

Expiry Date: May 31, 2028

PS: This Certificate is Issued in Accordance with Annex III of the RE Directive 2014/53/EU and is only valid in Conjunction with the Following Annex I.

Bureau Veritas Consumer Products Services, Inc.  
775 Montague Expressway, Milpitas, CA 95035, USA  
Tel: 408 526 1188, Fax: 408 526 1088,

Website: <https://www.cps.bureauveritas.com/>, Email: [bureauveritas@bureauveritas.com](mailto:bureauveritas@bureauveritas.com)



## Annex I of RED EU-TYPE Examination Certificate

Certificate Number: CS35769

Product Specifications	
Frequency Range	2402-2480MHz (BT-LE), 2412-2472MHz (2.4G WIFI), 5180-5700 MHz (5G WIFI), 5745- 5825MHz (5.8G WIFI)
RF Output Power (EIRP)	BT-LE: 9.98 dBm 2.4G WIFI: 802.11b/g/n(HT20): 19.80 dBm 5G WIFI: 802.11a: 20.87 dBm, 802.11n(HT20): 20.38 dBm, 802.11n(HT40): 19.92 dBm, DFS Slave: 21.23 dBm 5.8G WIFI: 802.11a/802.11n(HT20)/802.11ac(VHT20)/802.11n(HT40)/802.11ac(VHT40): 13.47 dBm
Type of Antenna	PCB Antenna
Modulation	BT-LE: GFSK 2.4GHz WIFI, 5G WIFI, 5.8G WIFI: OFDM
Mode of Operation (Simplex / Duplex)	Duplex
Duty Cycle	-
Comments	-

### Technical Documentation Identification

Test Report	
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health & Safety	SE2209WDG0276-1, SE2209WDG0276-2, RD2209WDG00276 (Safety)
RE Directive 2014/53/EU, Article 3(1)(b) ■ EMC	RM2209WDG0276
RE Directive 2014/53/EU, Article 3(2) ■ Radio	RE2209WDG0276-1, RE2209WDG0276-2, RE2209WDG0276-3, RE2209WDG0276-4, RE2209WDG0276-5
RE Directive 2014/53/EU, Article 3(3) ■ Certain categories	-
User Manual	<input checked="" type="checkbox"/>
Product Label	<input checked="" type="checkbox"/>
Block Diagram	<input checked="" type="checkbox"/>
Circuit Diagram	<input checked="" type="checkbox"/>
BOM	<input checked="" type="checkbox"/>
Declaration of Conformity	<input checked="" type="checkbox"/>
Risk Assessment	<input checked="" type="checkbox"/>

Based on the evidence presented, our certificate in accordance with Annex III of Council Directive 2014/53/EU on Radio Equipment Directive and the mutual recognition of their conformity is that the apparatus identified above complies with the requirements of that Directive stated above.

Note: Compliance with the above Directive does not guarantee the right to use the above mentioned equipment in any EU member state. No configuration, other than described above, has been considered and is therefore not included in this certificate.

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Please check the validation of this certificate at [BV CPS Cert Validation Portal](#)