



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	CS32212
Certificate Holder	Particle Industries, Inc
Address	126 Post St, 4th floor, San Francisco, CA 94108 USA
Manufacturer	Particle Industries, Inc
Address	126 Post St, 4th floor, San Francisco, CA 94108 USA
Product Type/Description	Tracker One LTE CAT1/3G/2G
Trade Name	Particle
Model Number	ONE523M, ONE524M, ONE523M-NB, ONE524M-NB
Product Identification Element	ONE523M, ONE524M, ONE523M-NB, ONE524M-NB

Applied / Complied Harmonized Standards		Complied
RE Directive 2014/53/EU, Article 3(1)(a) ■ Safety	EN 62368-1:2014+A11:2017	Y
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health	EN 62479:2010, EN 50663:2017 EN 62311:2020, EN 50665:2017	Y
RE Directive 2014/53/EU, Article 3(1)(b) ■ EMC	EN 55032: 2015+A11:2020, Class B, EN 55035:2017 EN 301 489-1 V2.2.3, EN 301 489-3 V2.1.1 EN 301 489-17 V3.2.4, EN 301 489-19 V2.2.0 EN 301 489-52 V1.1.0	Y
RE Directive 2014/53/EU, Article 3(2) ■ Radio	EN 301 511 V12.5.1, EN 301 908-1 V13.1.1 EN 301 908-2 V11.1.2, EN 301 908-13 V13.1.1 EN 300 330 V2.1.1, EN 300 328 V2.2.2 EN 303 413 V1.1.1	Y

Authorized By:

Darren Shih

Darren Shih, Senior Manager

Issue Date: Jan. 7, 2021

Expiry Date: Jan. 6, 2026

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
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Website: <https://www.cps.bureauveritas.com/>, Email: bureauveritas@bureauveritas.com


**BUREAU
VERITAS**

Annex I of RED EU-TYPE Examination Certificate

Certificate Number: CS32212

Product Specifications																
Frequency Range	13.56MHz (NFC), 1575.42 MHz±1.023 MHz (GPS, GALILEO) 2402-2480MHz (BLE), 2412-2472MHz (2.4G WIFI), GSM 900: 880.2-914.8MHz (Tx), 925.2-959.8MHz (Rx) DCS1800: 1710.2-1784.8MHz (Tx), 1805.2-1879.8MHz (Rx) WCDMA Band I: 1922.6-1977.4 MHz (Tx), 2112.6-2167.4 MHz (Rx) WCDMA Band VIII :882.4-912.6 MHz (Tx), 927.4-957.6 MHz (Rx) LTE Band 1: 1922.5-1977.5 MHz (Tx), 2112.5-2167.5 MHz (Rx) LTE Band 3: 1710.7-1784.3 MHz (Tx), 1805.7-1879.3 MHz (Rx) LTE Band 7: 2502.5-2567.5 MHz (Tx), 2622.5-2687.5 MHz (Rx) LTE Band 8: 880.7-914.3MHz (Tx), 925.7-959.3 MHz (Rx) LTE Band 20: 834.5-859.5 MHz (Tx), 793.5-818.5 MHz (Rx) LTE Band 28: 704.5-746.5 MHz (Tx), 759.5-801.5 MHz (Rx)															
RF Output Power (EIRP)	9.00 dBm (BLE) 18.75 dBm (802.11b), 17.98 dBm (802.11g), 18.01 dBm (802.11n20), 17.97dBm (802.11n40) 32.36 dBm*(GSM900), 29.30 dBm*(DCS1800) 23.33 dBm*(WCDMA BAND I), 23.39 dBm*(WCDMA BAND VIII) 23.64 dBm*(LTE Band 1), 23.36 dBm*(LTE Band 3), 23.25 dBm*(LTE Band 7), 23.55 dBm*(LTE Band 8), 23.26 dBm*(LTE Band 20), 23.33 dBm*(LTE Band 28)															
Type of Antenna	Loop Antenna (NFC), Integral Antenna (GPS, GALILEO), FPCB Antenna (BLE, 2.4G WIFI), External Antenna (GSM, WCDMA, LTE)															
Modulation	ASK (NFC), CDMA (GPS, GALILEO) DTS (BLE), DSSS and OFDM (2.4GWIFI) GMSK, 8PSK (GSM); BPSK,QPSK (WCDMA); QPSK, 16QAM (LTE)															
Mode of Operation (Simplex / Duplex)	Simplex (NFC, GPS, GLONASS) / Duplex															
Duty Cycle	-															
Comments	*: Conducted Power - There are 4 variable family models which are electrically identical in this CE RED NB certificate. Please see following for the differences of the different model. <table border="1"> <thead> <tr> <th>Product name</th> <th>e-SIM company</th> <th>Built-in LiPo battery</th> </tr> </thead> <tbody> <tr> <td>ONE523M</td> <td>Kore</td> <td>Yes</td> </tr> <tr> <td>ONE524N</td> <td>Twilio</td> <td>Yes</td> </tr> <tr> <td>ONE523M-NB</td> <td>Kore</td> <td>No</td> </tr> <tr> <td>ONE524N-NB</td> <td>Twilio</td> <td>No</td> </tr> </tbody> </table>	Product name	e-SIM company	Built-in LiPo battery	ONE523M	Kore	Yes	ONE524N	Twilio	Yes	ONE523M-NB	Kore	No	ONE524N-NB	Twilio	No
Product name	e-SIM company	Built-in LiPo battery														
ONE523M	Kore	Yes														
ONE524N	Twilio	Yes														
ONE523M-NB	Kore	No														
ONE524N-NB	Twilio	No														

Technical Documentation Identification

Test Report	
RE Directive 2014/53/EU, Article 3(1)(a) ■ Health & Safety	RD2009WDG0430 (Safety), SE201009W001, SE2008WDG0083-1, SE2008WDG0083-2 (Health)
RE Directive 2014/53/EU, Article 3(1)(b) ■ EMC	CE2008WDG0083, RM201009W001
RE Directive 2014/53/EU, Article 3(2) ■ Radio	RE2008WDG0083-1 · RE2008WDG0083-2 · RE2008WDG0083-3 · RE201009W001-1 · RE201009W001-2, R1906A0310-R2, R1906A0310-R3

EUT Photos	<input checked="" type="checkbox"/>
User Manual	<input checked="" type="checkbox"/>
Product Label	<input checked="" type="checkbox"/>
Block Diagram	<input checked="" type="checkbox"/>
Circuit Diagram	<input checked="" type="checkbox"/>
Operational description	<input checked="" type="checkbox"/>
BOM	<input checked="" type="checkbox"/>
PCB layout	<input checked="" type="checkbox"/>
Declaration of Conformity	<input checked="" type="checkbox"/>
Risk Assessment	<input checked="" type="checkbox"/>
Package	<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](#)