

Notified Body
Eurofins Electrical and Electronic Testing NA, Inc.

EU-TYPE EXAMINATION CERTIFICATE

Registration Number: 43802-01-2026-260046

Manufacturer:	Particle Industries, Inc. 548 Market St, PMB 34833, San Francisco, CA 94104, USA
Product Description:	Tachyon
Model Number/Name:	TACH4ROW, TACH8ROW

Essential Requirement(s)

	Result
Art. 3.1(a) Safety	Conform
Art. 3.1 (a) Health	Conform
Art. 3.1(b) EMC	Conform
Art. 3.2 Radio	Conform

Examination Result:

Based on the reports provided and the information therein, the equipment referenced above is compliant to these specifications.

The scope of evaluation relates to the submitted documents only.

This Certificate is issued in accordance with Annex III, Module B, of the RE directive 2014/53/EU of 16 April 2014 and is only valid in conjunction with the attached Annex.



1/27/2026
Date

Signed By Harvey Hu
Notified Body

For validation of this document's authenticity, please contact globalcertification@cpt.eurofinsus.com for verification.

Annex

Product specification

Hardware version:

V1.2

Software version:

1.0.160

Frequency Band(s):

BT:2402~2480MHz
 BLE:2402 ~ 2480MHz
 2.4GWiFi:2412 ~2472MHz
 5GWIFI:5180~5240MHz,5260~5320MHz,5500~5700MHz,5745~5825MHz
 6GHz RLAN:5945 ~ 6425MHz
 GSM/GPRS/EGPRS 900:880 ~ 915MHz(TX),925 ~960MHz(RX)
 GSM/GPRS/EGPRS 1800:1710 ~ 1785MHz(TX),1805 ~1880MHz(RX)
 WCDMA B1: 1920MHz ~ 1980MHz(TX), 2110MHz ~ 2170MHz(RX)
 WCDMA B5: 824MHz ~ 849MHz(TX), 869MHz ~ 894MHz(RX)
 (No EU Band)
 WCDMA B8: 880MHz ~ 915MHz(TX), 925MHz ~ 960MHz(RX)
 LTE Band 1 1920MHz ~ 1980MHz(TX),2110MHz ~ 2170MHz(RX)
 LTE Band 3 1710MHz ~ 1785MHz(TX),1805MHz ~ 1880MHz(RX)
 LTE Band 5 824MHz ~ 849MHz(TX),869MHz ~ 894MHz(RX)
 (No EU Band)
 LTE Band 7 2500MHz ~ 2570MHz(TX),2620MHz ~ 2690MHz(RX)
 LTE Band 8 880MHz ~ 915MHz(TX),925MHz ~ 960MHz(RX)
 LTE Band 20 832MHz ~ 862MHz(TX),791MHz ~ 821MHz(RX)
 LTE Band 28 703MHz ~ 748MHz(TX),758MHz ~ 803MHz(RX)
 LTE Band 32 1452MHz ~ 1496MHz(RX)
 LTE Band 34 2010MHz ~ 2025MHz(TX),2010MHz ~ 2025MHz(RX)
 LTE Band 38 2570MHz ~ 2620MHz(TX),2570MHz ~ 2620MHz(RX)
 LTE Band 40 2300MHz ~ 2400MHz(TX),2300MHz ~ 2400MHz(RX)
 LTE Band 41 2496MHz ~ 2690MHz(TX),2496MHz ~ 2690MHz(RX)
 LTE Band 42 3400MHz ~ 3600MHz(TX),3400MHz ~ 3600MHz(RX)
 NR Band n1 1920~1980MHz(TX),2110~2170MHz(RX)
 NR Band n3 1710 ~ 1785MHz(TX),1805 ~ 1880MHz(RX)
 NR Band n5 824 ~ 849 MHz(TX), 869 ~ 894 MHz(RX) (Non-EU Band)
 NR Band n7 2500 ~ 2570 MHz(TX), 2620 ~ 2690 MHz(RX)
 NR Band n8 880 ~ 915 MHz(TX),925 ~ 960 MHz(RX)
 NR Band n20 832 ~ 862MHz(TX),791 ~ 821 MHz(RX)
 NR Band n28 703 ~ 748 MHz(TX),758 ~ 803 MHz(RX)
 NR Band n38 2570 ~ 2620 MHz(TX),2570 ~ 2620 MHz(RX)
 NR Band n40 2300 ~ 2400 MHz(TX),2300 ~ 2400 MHz(RX)
 NR Band n41 2496 ~ 2690MHz(TX),2496 ~ 2690MHz(RX)
 NR Band n77 3300 ~ 4200 MHz(TX),3300 ~ 4200 MHz(RX)
 NR Band n78 3300 ~ 3800 MHz(TX),3300 ~ 3800 MHz(RX)
 BDS B1I, Galileo E1, GLONASS G1, GPS L1 C/A, SBAS L1,
 1559MHz ~1610MHz(RX)
 GPS L5 1164MHz ~ 1215MHz(RX)

Transmit Power Range(s):
 BT:8.70dBm,BLE:-0.35dBm,2.4GWiFi:19.31dBm
 5.2G:19.03dBm,5.3G:19.08dBm,5.6G:19.08dBm,5.8G:19.08dBm,
 6GHz RLAN:17.97dBm

GSM 900:35dBm, GSM1800:32dBm
 WCDMA Band 1/5(Non-EU Band)/8: 25dBm
 LTE Band 1/3/5(Non-EU Band)/7/8/20/28/34/38/40/41/42: 25dBm
 LTE HPUE Band 41(Non-EU Band):28dBm
 NR Band n1/n3/n5(non-EU
 band)/n7/n8/n20/n28/n38/n40/n41/n77/n78:25dBm
 NR HPUE Band n41/n77/n78:28dBm
 BT:GFSK, π/4DQPSK, 8DPSK
 BLE:GFSK
 2.4GWiFi:DSSS,OFDM,OFDMA
 5GWIFI:OFDM,OFDMA
 6G RLAN:OFDM,OFDMA
 GSM:GMSK,8PSK
 WCMDA:QPSK, 16QAM, 64QAM
 LTE: QPSK, 16QAM, 64QAM, 256QAM
 NR:PI/2-BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
 GNSS: GPS/Beidou/GLONASS/SBAS: BPSK, Galileo: CBOC

Modulation Type(s):

Integrated

BT:GFSK, π/4DQPSK, 8DPSK
 BLE:GFSK
 2.4GWiFi:DSSS,OFDM,OFDMA
 5GWIFI:OFDM,OFDMA
 6G RLAN:OFDM,OFDMA
 GSM:GMSK,8PSK
 WCMDA:QPSK, 16QAM, 64QAM
 LTE: QPSK, 16QAM, 64QAM, 256QAM
 NR:PI/2-BPSK,QPSK, 16-QAM, 64-QAM, 256-QAM
 GNSS: GPS/Beidou/GLONASS/SBAS: BPSK, Galileo: CBOC

Antenna type(s):

Technical Construction File (TCF) Details

To demonstrate conformity with Article 3.1(a) Health

Applied Standards

EN IEC 62311:2020

Report or Certificate No.

TCWA25060045813

Issue Date

08/28/2025

Issued by

Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.

To demonstrate conformity with Article 3.1(a) Safety

Applied Standards

EN IEC 62368-1: 2024+A11:2024

Report or Certificate No.

WTX25X06171568S

Issue Date

07/29/2025

Issued by

Waltek Testing Group (Shenzhen) Co., Ltd.

To demonstrate conformity with Article 3.1(b) EMC

Applied Standards

EN 301 489-1 V2.2.3 (2019-11)

EN 301 489-3 V2.3.2 (2023-01)

EN 301 489-17 V3.3.1(2024-09)

EN 301 489-19 V2.2.1 (2022-09)

EN 301 489-52 V1.3.1(2024-11)

EN 55032: 2015+A1:2020,

EN 55035:2017+A11:2020

Report or Certificate No.

TCWA25060045814

Issue Date

09/04/2025

Issued by

Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.

To demonstrate conformity with Article 3.2 Spectrum Efficiency

Applied Standards

EN 301 511 V12.5.1 (2017-03)
 EN 301 908-1 V15.2.1 (2023-01)
 EN 301 908-2 V13.1.1 (2020-06)
 EN 301 908-13 V13.3.1 (2024-10)
 EN 301 908-25 V 15.1.1(2024-10)
 EN 300 328 V2.2.2 (2019-07)
 EN 301 893 V2.2.1(2024-11)
 EN 300 440 V2.2.1(2018-07)
 EN 303 687 V1.1.1(2023-06)
 EN 303 413 V1.2.1(2021-04)

Report or Certificate No.	Issue Date	Issued by
TCWA25060045801	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045805	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045802	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045803	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045804	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045806	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045807	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045808	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045809	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045810	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045811	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.
TCWA25060045812	08/28/2025	Sushi TOWE Wireless Testing (Shenzhen) Co., Ltd.