

TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

TCB

Certification

Issued Under the Authority of the
Federal Communications Commission

By:

Eurofins Electrical and Electronic Testing
NA, Inc.
914 W. Patapsco Avenue
Baltimore, MD 21230-3432

Date of Grant: 02/04/2026

Application Dated: 02/04/2026

Particle Industries, Inc.

548 Market St

PMB 34833

San Francisco, CA 94104

Attention: Nick Lambourne , CTO

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2AEMI-TACHYON

Name of Grantee: Particle Industries, Inc.

Equipment Class: PCS Licensed Transmitter

Notes: Tachyon

Modular Type: Single Modular

Grant Notes

FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
24E	1852.5 - 1907.5	0.226	0.1 PM	4M56G7D
24E	1860.0 - 1900.0	0.21	0.1 PM	18M2G7D
24E	1852.5 - 1907.5	0.209	0.1 PM	4M58W7D
24E	1860.0 - 1900.0	0.204	0.1 PM	18M2W7D
27	1712.5 - 1752.5	0.202	0.1 PM	4M57G7D
27	1720.0 - 1745.0	0.2	0.1 PM	18M2G7D
27	1715.0 - 1750.0	0.199	0.1 PM	9M10W7D
27	1720.0 - 1745.0	0.195	0.1 PM	18M1W7D
22H	826.5 - 846.5	0.237	0.1 PM	4M56G7D
22H	829.0 - 844.0	0.231	0.1 PM	9M07G7D
22H	825.5 - 847.5	0.221	0.1 PM	2M75W7D
22H	829.0 - 844.0	0.213	0.1 PM	9M09W7D
27	2502.5 - 2567.5	0.261	0.1 PM	4M56G7D
27	2510.0 - 2560.0	0.243	0.1 PM	18M1G7D
27	2502.5 - 2567.5	0.256	0.1 PM	4M57W7D
27	2510.0 - 2560.0	0.236	0.1 PM	18M1W7D
27	704.0 - 711.0	0.245	0.1 PM	9M06G7D
27	699.7 - 715.3	0.222	0.1 PM	1M11W7D

27	704.0 - 711.0	0.218	0.1 PM	9M06W7D
27	779.5 - 784.5	0.202	0.1 PM	4M57G7D
27	782.0 - 782.0	0.197	0.1 PM	9M01G7D
27	779.5 - 784.5	0.204	0.1 PM	4M56W7D
27	782.0 - 782.0	0.185	0.1 PM	9M01W7D
90	790.5 - 795.5	0.253	0.1 PM	4M58G7D
90	793.0 - 793.0	0.234	0.1 PM	9M04G7D
90	790.5 - 795.5	0.242	0.1 PM	4M57W7D
90	793.0 - 793.0	0.211	0.1 PM	9M06W7D
27	709.0 - 711.0	0.206	0.1 PM	9M08G7D
27	706.5 - 713.5	0.221	0.1 PM	4M57W7D
27	709.0 - 711.0	0.205	0.1 PM	9M09W7D
24E	1852.5 - 1912.5	0.233	0.1 PM	4M57G7D
24E	1860.0 - 1905.0	0.204	0.1 PM	18M1G7D
24E	1852.5 - 1912.5	0.207	0.1 PM	4M58W7D
24E	1860.0 - 1905.0	0.189	0.1 PM	18M1W7D
90	819.0 - 819.0	0.226	0.1 PM	9M01G7D
90	819.0 - 819.0	0.185	0.1 PM	9M06W7D
22H	824.7 - 848.3	0.203	0.1 PM	1M12G7D
22H	831.5 - 841.5	0.195	0.1 PM	13M6G7D
22H	824.7 - 848.3	0.191	0.1 PM	1M12W7D
22H	831.5 - 841.5	0.164	0.1 PM	13M6W7D
27	2307.5 - 2312.5	0.186	0.1 PM	4M56G7D
27	2310.0 - 2310.0	0.185	0.1 PM	9M12G7D
27	2307.5 - 2312.5	0.177	0.1 PM	4M59W7D
27	2310.0 - 2310.0	0.162	0.1 PM	9M11W7D
27	2572.5 - 2617.5	0.259	0.1 PM	4M56G7D
27	2580.0 - 2610.0	0.248	0.1 PM	18M2G7D
27	2572.5 - 2617.5	0.232	0.1 PM	4M59W7D
27	2580.0 - 2610.0	0.228	0.1 PM	18M2W7D
27	2501.0 - 2685.0	0.354	0.1 PM	9M10G7D
27	2506.0 - 2680.0	0.342	0.1 PM	18M1G7D
27	2498.5 - 2687.5	0.333	0.1 PM	4M59W7D
27	2506.0 - 2680.0	0.317	0.1 PM	18M2W7D
27	3452.5 - 3547.5	0.23	0.1 PM	4M56G7D
27	3460.0 - 3540.0	0.217	0.1 PM	18M1G7D
27	3452.5 - 3547.5	0.214	0.1 PM	4M58W7D
27	3460.0 - 3540.0	0.2	0.1 PM	18M2W7D
27	3705.0 - 3795.0	0.108	0.1 PM	9M06G7D
27	3710.0 - 3790.0	0.098	0.1 PM	18M1G7D
27	3702.5 - 3797.5	0.093	0.1 PM	4M55W7D
27	3710.0 - 3790.0	0.081	0.1 PM	18M1W7D
27	1712.5 - 1777.5	0.236	0.1 PM	4M56G7D
27	1720.0 - 1770.0	0.21	0.1 PM	18M1G7D
27	1712.5 - 1777.5	0.204	0.1 PM	4M57W7D
27	1720.0 - 1770.0	0.203	0.1 PM	18M1W7D

27	665.5 - 695.5	0.209	0.1 PM	4M55G7D
27	673.0 - 688.0	0.201	0.1 PM	18M1G7D
27	665.5 - 695.5	0.205	0.1 PM	4M58W7D
27	673.0 - 688.0	0.18	0.1 PM	18M1W7D
24E	1855.0 - 1905.0	0.215	0.1 PM	9M38G7D
24E	1860.0 - 1900.0	0.208	0.1 PM	19M2G7D
24E	1855.0 - 1905.0	0.188	0.1 PM	9M41W7D
24E	1860.0 - 1900.0	0.183	0.1 PM	19M2W7D
22H	826.5 - 846.5	0.221	0.1 PM	4M54G7D
22H	834.0 - 839.0	0.217	0.1 PM	19M1G7D
22H	829.0 - 844.0	0.195	0.1 PM	9M39W7D
22H	834.0 - 839.0	0.19	0.1 PM	19M1W7D
27	2502.5 - 2567.5	0.225	0.1 PM	4M57G7D
27	2510.0 - 2560.0	0.216	0.1 PM	19M2G7D
27	2502.5 - 2567.5	0.202	0.1 PM	4M57W7D
27	2510.0 - 2560.0	0.189	0.1 PM	19M2W7D
27	704.0 - 711.0	0.211	0.1 PM	9M36G7D
27	706.5 - 708.5	0.21	0.1 PM	14M3G7D
27	701.5 - 713.5	0.17	0.1 PM	4M55W7D
27	706.5 - 708.5	0.166	0.1 PM	14M3W7D
27	779.5 - 784.5	0.2	0.1 PM	4M56G7D
27	782.0 - 782.0	0.2	0.1 PM	9M31G7D
27	779.5 - 784.5	0.18	0.1 PM	4M56W7D
27	782.0 - 782.0	0.177	0.1 PM	9M34W7D
90	790.5 - 795.5	0.249	0.1 PM	4M55G7D
90	793.0 - 793.0	0.239	0.1 PM	9M39G7D
90	790.5 - 795.5	0.2	0.1 PM	4M55W7D
90	793.0 - 793.0	0.194	0.1 PM	9M39W7D
24E	1852.5 - 1912.5	0.21	0.1 PM	4M58G7D
24E	1860.0 - 1905.0	0.207	0.1 PM	19M1G7D
24E	1855.0 - 1910.0	0.188	0.1 PM	9M41W7D
24E	1860.0 - 1905.0	0.179	0.1 PM	19M2W7D
90	819.0 - 819.0	0.225	0.1 PM	9M37G7D
90	819.0 - 819.0	0.185	0.1 PM	9M40W7D
22H	826.5 - 846.5	0.22	0.1 PM	4M54G7D
22H	834.0 - 839.0	0.219	0.1 PM	19M0G7D
22H	826.5 - 846.5	0.198	0.1 PM	4M57W7D
22H	834.0 - 839.0	0.191	0.1 PM	19M2W7D
27	2310.0 - 2310.0	0.183	0.1 PM	9M45G7D
27	2307.5 - 2312.5	0.159	0.1 PM	4M60W7D
27	2310.0 - 2310.0	0.154	0.1 PM	9M45W7D
27	2580.0 - 2610.0	0.214	0.1 PM	18M8G7D
27	2590.0 - 2600.0	0.208	0.1 PM	38M3W7D
27	2516.01 - 2670.0	0.469	0.1 PM	38M4G7D
27	2546.01 - 2640.0	0.451	0.1 PM	98M3G7D
27	2541.0 - 2644.98	0.364	0.1 PM	88M3W7D

27	2546.01 - 2640.0	0.351	0.1 PM	98M3W7D
27	1715.0 - 1775.0	0.216	0.1 PM	9M41G7D
27	1720.0 - 1770.0	0.205	0.1 PM	19M1G7D
27	1712.5 - 1777.5	0.178	0.1 PM	4M56W7D
27	1720.0 - 1770.0	0.132	0.1 PM	19M2W7D
27	1700.0 - 1705.0	0.187	0.1 PM	9M41G7D
27	1702.5 - 1702.5	0.182	0.1 PM	14M3G7D
27	1697.5 - 1707.7	0.149	0.1 PM	4M58W7D
27	1702.5 - 1702.5	0.146	0.1 PM	14M3W7D
27	665.5 - 695.5	0.22	0.1 PM	4M57G7D
27	673.0 - 688.0	0.216	0.1 PM	19M1G7D
27	665.5 - 695.5	0.203	0.1 PM	4M57W7D
27	673.0 - 688.0	0.189	0.1 PM	19M1W7D
27	3470.01 - 3530.01	0.378	0.1 PM	38M2G7D
27	3500.01 - 3500.01	0.352	0.1 PM	98M3G7D
27	3470.01 - 3530.01	0.289	0.1 PM	38M3W7D
27	3500.01 - 3500.01	0.27	0.1 PM	98M3W7D
27	3710.01 - 3969.99	0.403	0.1 PM	18M5G7D
27	3750.0 - 3930.0	0.361	0.1 PM	98M7G7D
27	3714.99 - 3965.01	0.29	0.1 PM	28M2W7D
27	3750.0 - 3930.0	0.259	0.1 PM	98M7W7D
27	3720.0 - 3780.0	0.425	0.1 PM	38M3G7D
27	3750.0 - 3750.0	0.381	0.1 PM	98M3G7D
27	3720.0 - 3780.0	0.337	0.1 PM	38M3W7D
27	3750.0 - 3750.0	0.293	0.1 PM	98M3W7D

Single Modular Approval. Output Power listed is conducted. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons. Co-location of this module with other transmitters that operate simultaneously are required to be evaluated using the FCC multi-transmitter procedures. End-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance. OEM integrators must insure that the end user has no manual instructions to remove or install this module. For mobile and fixed operating configurations, the antenna gain, including cable loss, must not exceed the gains documented in this filing for satisfying RF exposure compliance, as defined in 2.1091. The host integrator must follow the integration instructions provided by the module manufacturer and ensure that the composite-system end product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules and to KDB Publication 996369. The module grantee is responsible for providing the documentation to the system integrator on restrictions of use, for continuing compliance of the module. The host integrator installing this module into their product must ensure that the final composite product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operation and should refer to guidance in KDB 996369. This device supports LTE of 1.4, 3, 5, 10, 15 and 20 MHz bandwidth modes for LTE Band 2, 4, 25, 66; LTE of 1.4, 3, 5 and 10 MHz bandwidth modes for LTE Band 5, 12, 26(814-824); LTE of 5, 10, 15 and 20MHz bandwidth modes for LTE Band 7, 38, 41, 42, 43, 71; LTE of 5 and 10MHz bandwidth modes for LTE Band 13, 14, 17, 30; LTE of 1.4, 3, 5, 10 and 15MHz bandwidth for LTE Band 26(824-849). This device supports Frequency Range 1 5G NR modes of 5, 10, 15, and 20 MHz bandwidth for Bands n2, n5, n7, n25, n26(824-849MHz), n66 and n71; 5, 10, 15 MHz bandwidth modes for Bands n12, n70; 5 and 10MHz bandwidth modes for Bands n13, n14, n26(814-824), n30; 20, 30 and 40 MHz bandwidth modes for Band n38; 20, 30, 40, 50, 60, 80, 90 and 100 MHz bandwidth modes for Band n41; 20, 30, 40, 60, 80 and 100 MHz bandwidth modes for Band n77; and 20, 30, 40, 50, 60, 70, 80, 90 and 100 MHz bandwidth modes for Band n78. This device supports both SA and NSA modes for 5G NR technology. This device supports LTE intra-band Uplink CA in the LTE Bands 2/5/7/38/41/42/66 and SA UL MIMO in the 5G NR bands n38/n41/n77/n78. Certification of LTE band 42 operations is limited to the 3.45 GHz segment under §27.5(o). Certification for 3GPP 5G NR bands n77/n78

operations is limited to the 3.7GHz segment under §27.5(m) and 3.45GHz segment under §27.5(o).