

**Certification
Issued Under the Authority of the
Federal Communications Commission**

By:

**Bureau Veritas Consumer Products
Services, Inc.
775 Montague Expressway
Milpitas, CA 95035**

Date of Grant: 09/16/2020

Application Dated: 09/15/2020

**Particle Industries, Inc.
126 Post St, 4th floor
San Francisco, CA 94108**

Attention: Zach Supalla , CEO

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-T40X
Name of Grantee: Particle Industries, Inc.
Equipment Class: PCS Licensed Transmitter
Notes: Tracker SoM LTE M1
Modular Type: Single Modular

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	22H	824.2 - 848.8	1.936	0.0395 PM	246KGXW
	22H	824.2 - 848.8	0.341	0.0317 PM	249KG7W
	22H	824.7 - 848.3	0.214	0.0043 PM	1M11G7D
	22H	824.7 - 848.3	0.211	0.02736 PM	947KW7D
	22H	825.5 - 847.5	0.214	0.00491 PM	1M16G7D
	22H	825.5 - 847.5	0.212	0.02166 PM	983KW7D
	22H	826.5 - 846.5	0.215	0.00552 PM	1M15G7D
	22H	826.5 - 846.5	0.211	0.02244 PM	1M01W7D
	22H	829.0 - 844.0	0.216	0.00586 PM	1M20G7D
	22H	829.0 - 844.0	0.213	0.01753 PM	1M05W7D
	24E	1850.2 - 1909.8	0.989	0.0185 PM	246KGXW
	24E	1850.2 - 1909.8	0.336	0.015 PM	248KG7D
	24E	1850.7 - 1909.3	0.219	0.00433 PM	1M11G7D
	24E	1850.7 - 1909.3	0.214	0.00584 PM	948KW7D
	24E	1851.5 - 1908.5	0.217	0.00419 PM	1M16G7D
	24E	1851.5 - 1908.5	0.215	0.00624 PM	985KW7D
	24E	1852.5 - 1907.5	0.219	0.00295 PM	1M17G7D
	24E	1852.5 - 1907.5	0.214	0.00437 PM	1M01W7D
	24E	1855.0 - 1905.0	0.218	0.0053 PM	1M19G7D
	24E	1855.0 - 1905.0	0.216	0.00578 PM	1M19W7D
	24E	1857.5 - 1902.5	0.219	0.00485 PM	1M22G7D
	24E	1857.5 - 1902.5	0.213	0.00572 PM	1M90W7D
	24E	1860.0 - 1900.0	0.22	0.00316 PM	1M25G7D
	24E	1860.0 - 1900.0	0.217	0.00639 PM	1M15W7D
	24E	1850.7 - 1914.3	0.253	0.00928 PM	1M11G7D

24E	1850.7 - 1914.3	0.249	0.00815 PM	951KW7D
24E	1851.5 - 1913.5	0.252	0.00928 PM	1M16G7D
24E	1851.5 - 1913.5	0.251	0.00815 PM	992KW7D
24E	1852.5 - 1912.5	0.254	0.00928 PM	1M14G7D
24E	1852.5 - 1912.5	0.248	0.00815 PM	975KW7D
24E	1855.0 - 1910.0	0.253	0.00928 PM	1M18G7D
24E	1855.0 - 1910.0	0.251	0.00815 PM	1M05W7D
24E	1857.5 - 1907.5	0.252	0.00928 PM	1M20W7D
24E	1857.5 - 1907.5	0.249	0.00815 PM	1M06G7D
24E	1860.0 - 1905.0	0.256	0.00928 PM	1M21G7D
24E	1860.0 - 1905.0	0.252	0.00815 PM	1M11W7D
27	1710.7 - 1754.3	0.189	0.00514 PM	1M12G7D
27	1710.7 - 1754.3	0.186	0.02252 PM	939KW7D
27	1711.5 - 1753.5	0.19	0.00255 PM	1M15G7D
27	1711.5 - 1753.5	0.187	0.01732 PM	981KW7D
27	1712.5 - 1752.5	0.188	0.00357 PM	1M13G7D
27	1712.5 - 1752.5	0.185	0.0089 PM	1M02W7D
27	1715.0 - 1750.0	0.189	0.0033 PM	1M18G7D
27	1715.0 - 1750.0	0.187	0.01408 PM	1M07W7D
27	1717.5 - 1747.5	0.189	0.00182 PM	1M20G7D
27	1717.5 - 1747.5	0.185	0.0033 PM	1M06W7D
27	1720.0 - 1745.0	0.191	0.00297 PM	1M21G7D
27	1720.0 - 1745.0	0.188	0.03142 PM	1M11W7D
27	699.7 - 715.3	0.189	0.01025 PM	1M11G7D
27	699.7 - 715.3	0.187	0.01134 PM	939KW7D
27	700.5 - 714.5	0.19	0.00411 PM	1M15G7D
27	700.5 - 714.5	0.186	0.03153 PM	985KW7D
27	701.5 - 713.5	0.188	0.00376 PM	1M14G7D
27	701.5 - 713.5	0.187	0.04188 PM	976KW7D
27	704.0 - 711.0	0.191	0.00411 PM	1M21G7D
27	704.0 - 711.0	0.187	0.00582 PM	1M08W7D
27	779.5 - 784.5	0.179	0.00334 PM	1M15G7D
27	779.5 - 784.5	0.172	0.03679 PM	977KW7D
27	782.0 - 782.0	0.179	0.00465 PM	1M18G7D
27	782.0 - 782.0	0.173	0.01651 PM	1M03W7D

Power output listed is conducted. Modular approval. Co-location of this module with other transmitters that operate simultaneously are required to be evaluated using the FCC multitransmitter procedures. 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 antenna(s) must be installed to meet the RF exposure compliance separation distance of 20cm and any additional testing and authorization process as required. 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. The max. allowed antenna gain for External type antenna is 1.42dBi for GSM850/LTE Band 5/12/13 and 3.77dBi for GSM1900/LTE Band 2/25.