

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

**Timco Engineering, Inc.
849 NW State Road 45
Newberry, FL 32669**

**Date of Grant: 02/21/2023
Application Dated: 02/20/2023**

**Particle Industries, Inc.
325 9th St
San Francisco, CA 94103**

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-E404X
Name of Grantee: Particle Industries, Inc.
Equipment Class: PCS Licensed Transmitter
Notes: E Series Module
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	829.0 - 844.0	0.195	19.0 Hz	1M13G7D
	22H	829.0 - 844.0	0.191	19.0 Hz	968KW7D
	24E	1860.0 - 1900.0	0.449	16.0 Hz	1M12G7D
	24E	1860.0 - 1900.0	0.446	16.0 Hz	974KW7D
	27	1720.0 - 1745.0	0.439	27.0 Hz	1M13G7D
	27	1720.0 - 1745.0	0.437	27.0 Hz	974KW7D
	27	704.0 - 711.0	0.176	23.0 Hz	1M14G7D
	27	704.0 - 711.0	0.171	23.0 Hz	968KW7D
	27	782.0 - 782.0	0.194	23.0 Hz	1M13G7D
	27	782.0 - 782.0	0.19	23.0 Hz	968KW7D

Output Power is EIRP and ERP for above and below 1 GHz, respectively. Single Modular Approval for mobile RF Exposure condition. The module antenna(s) must be installed to meet the RF exposure compliance separation distance of 20 cm and any additional testing and authorization process as required. Co-location of this module with other transmitters that operate simultaneously are required to be evaluated using the FCC multi-transmitter procedures. Approved for OEM integration only. The grantee must provide OEM integrators, or end-users if marketed directly to end-users, with installation and operating instructions for satisfying FCC multi-transmitter product guidelines. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end-user has no manual instructions to remove or install the device. This transmitter must be installed and operated so as to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures, or as evaluated in this filing. This device supports LTE Cat M1 (eMTC) FDD LTE Bands 2, 4, 5, 12 and 13. This device contains functions that are not operational in U.S. Territories; this filing is applicable only for U.S. operations.