

TCB

GRANT OF EQUIPMENT
AUTHORIZATION

TCB

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: 04/07/2024
Application Dated: 04/07/2024

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-M404
Name of Grantee: Particle Industries, Inc.
Equipment Class: PCS Licensed Transmitter
Notes: M SoM
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	2.014	0.0082 PM	248KGXW
	22H	824.2 - 848.8	0.506	0.0095 PM	248KG7W
	22H	829.0 - 844.0	0.247	0.00923 PM	1M12G7D
	22H	829.0 - 844.0	0.246	0.00954 PM	962KW7D
	22H	831.5 - 841.5	0.286	0.00949 PM	1M13G7D
	22H	831.5 - 841.5	0.284	0.00949 PM	961KW7D
	24E	1850.2 - 1909.8	1.816	0.00956 PM	247KGXW
	24E	1850.2 - 1909.8	1.34	0.009 PM	248KG7W
	24E	1857.5 - 1902.5	0.743	0.00957 PM	1M14G7D
	24E	1857.5 - 1902.5	0.746	0.00954 PM	982KW7D
	24E	1860.0 - 1900.0	0.755	0.00957 PM	1M13G7D
	24E	1860.0 - 1900.0	0.75	0.00954 PM	971KW7D
	24E	1860.0 - 1905.0	0.736	0.00942 PM	1M14G7D
	24E	1860.0 - 1905.0	0.731	0.00939 PM	991KW7D
	27	1720.0 - 1745.0	0.773	0.00955 PM	1M13G7D
	27	1720.0 - 1745.0	0.769	0.00941 PM	974KW7D
	27	704.0 - 711.0	0.249	0.00937 PM	1M12G7D
	27	704.0 - 711.0	0.248	0.00955 PM	952KW7D
	27	782.0 - 782.0	0.244	0.00929 PM	1M12G7D

27	782.0 - 782.0	0.242	0.00951 PM	956KW7D
27	1720.0 - 1770.0	0.743	0.00945 PM	1M12G7D
27	1720.0 - 1770.0	0.735	0.00954 PM	966KW7D
90	819.0 - 819.0	0.217	0.00947 PM	1M11G7D
90	819.0 - 819.0	0.216	0.00954 PM	962KW7D

Output Power is EIRP and ERP for above and below 1 GHz, respectively, except for Part 90 LTE Band 26 emissions, which are conducted. 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 from all persons 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 device supports LTE Cat M1 (eMTC) FDD LTE Bands 2, 4, 5, 12, 13, 26 and 66; and LTE Cat NB 2 (Narrowband IoT) FDD LTE Bands 2, 4, 5, 12, 13, 26 and 66. This device contains functions that are not operational in U.S. Territories; this filing is applicable only for U.S. operations.