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Test Report

Prepared for: Pulse Roller

Model: EZQube-W

Description: Single motor, drive controller module for Synergy Motors

Serial Number: 973 156

To

FCC ID: 2A5FK-EZQUBEW

To

FCC Part 1.1310

Date of Issue: February 23, 2022

On the behalf of the applicant:

Pulse Roller
2748 Circleport Dr.
Erlanger, KY 41018

Attention of:

Pat Knapke
pknapke@pulseroller.com
Direct: 859-647-8945

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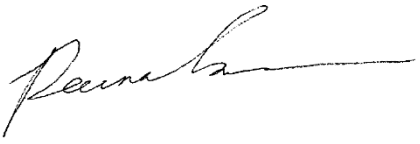

Poona Saber
Project Test Engineer

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	February 23, 2022	Poona Saber	Original Document
2.0	March 29, 2022	Greg Corbin	Added FCC ID to page 1
3.0	May 16, 2022	Greg Corbin	Updated calculations with highest power reported in RF test report

ANAB

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to http://www.compliancetesting.com/labscope.html for current scope of accreditation.

FCC Site Reg. #349717

IC Site Reg. #2044A-2

EUT Description
Model: EZQube-W
Description: EZ-Qube is an economical single motor, drive controller module for Senergy Motors
Firmware: NA
Software: NA
Serial Number: 973 156

Additional Information:

EZ-Qube is an economical single motor, drive controller module for Senergy Motors. Its input power is 24 VDC and has 3 connectors- motor, power and I/0 terminal.

It utilizes a Bluetooth low energy radio module that is controlled for testing purpose via an ESP RF test tool connected to a PC with a USB-UART bridge between UART connector on the module and USB port of the PC.

Module has a PCB trace antenna of 2 dBi gain.

MPE Evaluation

This is a fixed device used in uncontrolled Exposure environment.

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)	0.3-1.234 MHz:	Limit [mW/cm²] = 100
	1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
	30-300 MHz:	Limit [mW/cm²] = 0.2
	300-1500 MHz:	Limit [mW/cm²] = f/1500
	1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	2440
Power, Conducted, mW (P)	1.905
Antenna Gain Isotropic	2 dBi
Antenna Gain Numeric (G)	1.58
Antenna Type	PCB trace
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

Power Density (S) = 0.000597
Limit = (from above table) = 1

Minimum separation distance is 20 cm.

END OF TEST REPORT