

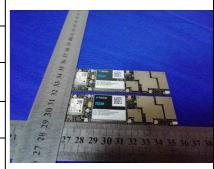




TEST REPORT

Applicant	Particle Industries,Inc
Address	126 Post St,4th floor, San Francisco, CA 94108 USA

Manufacturer or Supplier	Particle Industries, Inc	
Address	126 Post St,4th floor, San Francisco, CA 94108 USA	
Product Tracker SoM LTE CAT1/3G/2G		
Brand Name	Particle	
Model	T523M	
Additional Model & Model Difference	N/A	
Date of tests	May 18. 2020 ~ Jul. 17, 2020	



The submitted sample of the above equipment has been tested according to the requirements of the following standard:

⊠ EN 62479:2010

⋈ EN 50663:2017

CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement

Tested by Breeze Jiang	Approved by Glyn He
Senior Project Engineer / EMC Department	Assistant Manager / EMC Department

green

Date: Aug. 14, 2020

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SE200518N021-2	Original release	Aug. 14, 2020

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

PRODUCT	Tracker SoM LTE CAT1/3G/2G	
MODEL NO.	T523M	
ADDITIONAL MODEL	T524M	
NOMINAL VOLTAGE	Li+ PIN: DC +3.3V-4.3V or VBUS PIN: DC +4.35V-5.5V or VIN PIN: DC +3.9V-17V	
MODULATION TECHNOLOGY	DTS	
MODULATION TYPE	BT-LE, ASK	
OPERATING FREQUENCY	2402MHz -2480MHz for BT-LE(GFSK), 13.56MHz for NFC	
EIRP POWER (MAX.)	9.88dBm for BT-LE	
ANTENNA TYPE	FPCB Antenna, 2dBi Gain For BT-LE, or Ceramic Antenna, 0dBi Gain For BT-LE Loop Antenna for NFC	

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 200518N021) for detailed product photo
- 4. Additional model T524M is identical with the test model T523M except the model number for marketing purpose.

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2. RF EXPOSURE MEASUREMENT

2.1 INTRODUCTION

This International Standard provides simple conformity assessment methods for low-power electronic and electrical equipment to an exposure limit relevant to electromagnetic fields (EMF). If such equipment cannot be shown to comply with the applicable EMF exposure requirements using the methods included in this standard for EMF assessment, then other standards, including IEC 62311 or other (EMF) product standards, may be used for conformity assessment. This European Standard supersedes EN 50371:2002.

2.2 COMPLIANCE CRITERIA

Compliance of electromagnetic emissions from electronic and electrical equipment with the basic restrictions usually is determined by measurements and, in some cases, calculation of the exposure level. If the electrical power used by or radiated by the equipment is sufficiently low, the electromagnetic fields emitted will be incapable of producing exposures that exceed the basic restrictions. This standard provides simple EMF assessment procedures for this low power equipment.

Any relevant compliance assessment procedure which is consistent with the state of the art, reproducible and gives valid results can be used.

For transmitters intended for use with more than one antenna configuration option, the combination of transmitter and antenna(s) which generates the highest available antenna power and/or average total radiated power shall be assessed.

2.3 NORMATIVE REFERENCE

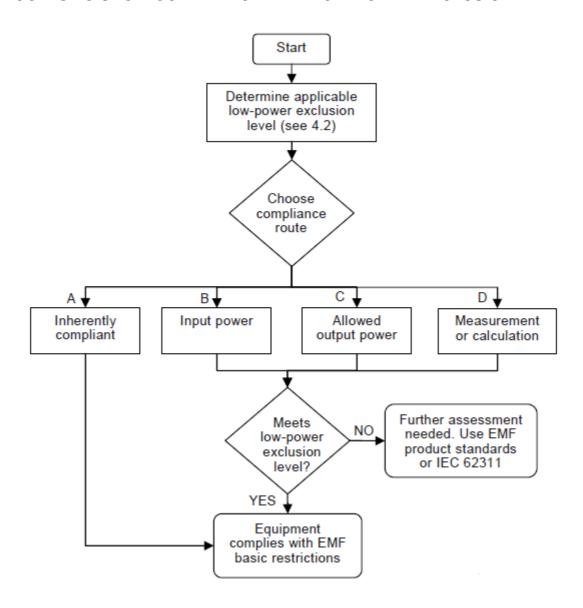
The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Publication	Year	Title	EN/HD	Year
IEC 62311 (mod)	-	Assessment of electronic and electrical equipment	EN 62311:	-
		related to human exposure restrictions for	2008	
		electromagnetic fields (0 Hz -300 GHz)		

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.



2.4 ROUTES TO SHOW COMPLIANCE WITH LOW-POWER EXCLUSION LEVEL



2.5 TEST RESULTS

CALCULATION FOR MAXIMUM EIRP:

AV Power (EIRP)(dBm)	Power (EIRP)(mW)	Low-power exclusion level (mW)
9.88	9.73	20

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