

Test Report Number: 4135637EMC02 Rev: 0 Crestron Electronics Inc./ ZUMMESH-KPBATT

Page: 1 of 4

RF Exposure Report

Project Number: 4135637

Report Number: 4135637EMC02 Revision Level: 0

Client: Crestron Electronics Inc.

Equipment Under Test: Zigbee Radio Module

Model: ZUMMESH-KPBATT

FCC ID: EROZUMKPBATT

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC OET Bulletin 65 Supplement

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.



Test Report Number: 4135637EMC02 Rev: 0 Crestron Electronics Inc./ ZUMMESH-KPBATT

Page: 2 of 4

TABLE OF CONTENTS

1	GEN	VERAL INFORMATION	. :
		CLIENT INFORMATION	
	1.2	TEST LABORATORY	. :
	1.3	GENERAL INFORMATION OF EUT	
	1.4	OPERATING MODES AND CONDITIONS	. :
,	DE I	EXPOSURE	,
4	Kri	EAT USURE	, -
	2.1	TEST RESULT.	. 4
	2.2	TEST METHOD.	. 4
	2.3	SINGLE TRANSMISSION RF EXPOSURE LEVELS	. 4



Test Report Number: 4135637EMC02 Rev: 0 Crestron Electronics Inc./ ZUMMESH-KPBATT

Page: 3 of 4

1 General Information

1.1 Client Information

Name: Crestron Electronics Inc

Address: 15 Volvo Drive

City, State, Zip, Country: Rockleigh, NJ 07647, USA

1.2 Test Laboratory

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Zigbee Radio Module Model Number: ZUMMESH-KPBATT

Serial Number: CNA9241328

Frequency Range: 2405-2480MHz

Modulation: 802.15.4 (Zigbee)

Antenna: 0.5dBi Chip Antenna (Johanson Technology, P/N: 2450AT18A100)

Rated Voltage: 5Vdc Test Voltage: 5Vdc

Sample Received Date: 05 May 2017

Dates of testing: 28 March 2018

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured conducted power and peak antenna gain were considered.

SGS North America Inc.

Consumer and Retail

620 Old Peachtree Road NW, Suite 100, Suwanee, GA 30024

t (770) 570-1800

www.sgs.com



Test Report Number: 4135637EMC02 Rev: 0 Crestron Electronics Inc./ ZUMMESH-KPBATT

Page: 4 of 4

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result		
RF Exposure	FCC Part 1.1310	Compliant		

2.2 Test Method

Using the maximum measured conducted power, the power density was calculated.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	je EIRP	Distance (R)	Power Density EIRP _{Avg} /(4πR²)	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW/cm ²	mW/cm ²		
Zigbee	2400-2483.5	2.7	0.5	0.0	3.2	2	20	0.000	1.00	0%	Pass

SGS North America Inc.

Consumer and Retail

620 Old Peachtree Road NW, Suite 100, Suwanee, GA 30024

t (770) 570-1800

www.sgs.com