



Test Report - FCC Part 1.1310 / MPE
Simultaneous Transmission
Applicant: Kastle Systems International

Signature: _____

A handwritten signature in black ink, appearing to read "Tim Royer".

Sr. EMC Engineer
EMC-003838-NE



Name & Title: Tim Royer, Lab Manager

Date of Signature 12/19/2025

Signature: _____

A handwritten signature in black ink, appearing to read "Kristoffer Costa".

Name & Title: Kristoffer Costa, EMC Technician

Date of Signature 12/19/2025

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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1. Applicant Information

Applicant: Kastle Systems International
Address: 6402 Arlington Blvd.
Falls Church, Virginia, 22042, United States

2. Location of Testing

2.1 Test Laboratory

IIA Lab Services LLC. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86th Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780
FCC Designation # US1070
FCC site registration is under A2LA certificate # 0955.01
ISED Canada test site registration # 2056A
EU Notified Body # 1177
For all designations see A2LA scope # 0955.01

3. Test Sample(s) (EUT/DUT)

The test sample was received: 10/3/2025

Dates of Testing: 10/9/2025 – 10/16/2025

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification	
FCC ID:	2ALZSKR210K
Certified Module FCC ID:	QOQ-GM240P
Brief Description	Access Control Reader
Model(s) #	KR210-K
Firmware version	2.2.0
Software version	2.2.0
Serial Number	S102514200001

Technical Characteristics	
Frequency Range	2402 MHz- 2483.5 MHz
RF O/P Power (Max.)	8 dBm
Modulation	FM
Bandwidth & Emission Class	N/A
Number of Channels	N/A
Duty Cycle	100%
Antenna Connector	Internal
Voltage Rating (AC or Batt.)	12VDC

Antenna Characteristics			
Antenna	Frequency Range	Mode / BW	Antenna Gain
1	n/a	n/a	0 dBi

- Note: Information such as antenna gain, firmware/software numbers are provided by the manufacturer and cannot be validated by the test lab.

4. Test methods & Applicable Regulatory Limits

SAR EXCLUSION CALCULATION:

Section 4.3.1 General SAR test exclusion guidance

Equation:

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR,³⁰ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as *numeric thresholds* in step b) below

RSS 102 Issue 6 Section 6.3 Exemption Limits for Routine Evaluation

Equation:

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

1. RF Exposure Results

MPE

Frequency Band	Evaluation Distance (cm)	Max Power + Tolerance (dBm)	Antenna Gain (dBi)	Duty Cycle (%)	EIRP (W)	Power Density	Limit for Uncontrolled Exposure	Limit for Controlled Exposure	Distance Required to meet Uncontrolled Exposure Limit (cm)
2400-2483.5 MHz	5	-19.26	0.00	100%	0.0000	0 mW/cm ²	1 mW/cm ²	5 mW/cm ²	5.00

Power Density = 0.00003774 mW/cm²

MPE

Frequency Band	Evaluation Distance (cm)	Max Power + Tolerance (dBm)	Antenna Gain (dBi)	Duty Cycle (%)	EIRP (W)	Power Density	Limit for Uncontrolled Exposure	Limit for Controlled Exposure	Distance Required to meet Uncontrolled Exposure Limit (cm)
13.56-13.56 MHz	5	-79.98	0.00	100%	0.00	0 mW/cm ²	0.98 mW/cm ²	#NAME?	5.00

Power Density = 0.0000000000319 mW/cm²

Per KDB 447498 D01 General RF Exposure Guidance v06 Sec 7.2.

Equation: (TX1 MPE/MPE Limit 1 + TX2MPE/MPE Limit 2)

Frequency	Power Density at separation distance	Limit	MPE Ratio	Limit
2400-2483.5 & 13.56 MHz	0.00003774 mW/cm ²	0.2 mW/cm ²	1	≤1

MPE

Frequency Band	Separation Distance (mm)	Max Power + Tolerance (dBm)	Max Power + Tolerance (mW)	SAR Exclusion Value	Limit for 1-g SAR	Limit for 10-g SAR (Extremities)	SAR Exclusion
13.56MHz & 2400-2483.2MHz	5	-44.00	0.00	0.00	3.0	7.5	SAR EXEMPT

2. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_24037-25_ KR210-K _FCC 1.1310_MPE_Simultaneous Transmission_	1	Initial release	12/19/2025
	2	Initial release	12/31/2025

END OF TEST REPORT
