



**Keystone Compliance, LLC
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Durham, NC 27703**

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Honeywell International Inc

2109-108C-2



FCC Accreditation Designation Number:
US1308

Innovation, Science and Economic Development
Canada Accreditation Site Number:
US0232

Certificate #3293.03

This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency Federal Government.

RF Exposure



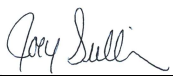
Certification Exhibit

FCC ID: QZC-A4MGK4
FCC Rule Part: 47 CFR Part 2.1091
Project Number: 2109-108C

Manufacturer: Honeywell International, Inc
Model: A4MGK4

Performed By: Keystone Compliance
2320 Presidential Drive, Suite 101
Durham, NC 27703

Keystone Compliance, LLC. does hereby certify that all inspections and tests have been performed in accordance with the documents referenced herein with exceptions as noted in this report. The results in this report pertain to the specified equipment tested, as received. This report shall not be reproduced, except in full, without the written authorization of Keystone Compliance, LLC.

Prepared By:	 Hannah Steele, Report Writer	Date:	11/16/2021
Approved By:	 Al Servais, Lab Manager	Date:	11/16/2021
Approved By:	 Joey Sullivan, Quality Manager	Date:	11/16/2021

General Information:

Applicant: Honeywell International, Inc
 Device Category: Stationary
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Multiple
 Antenna Gains: +1.3 dBi; +2.1 dBi; +2.3 dBi
 Maximum Transmitter Conducted Power: 316.23 mW
 Maximum System EIRP: 537.03 mW

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

- S = power density (in appropriate units, e.g. mW/cm²)
- P = power input to the antenna (in appropriate units, e.g., mW)
- G = power gain of the antenna in the direction of interest relative to an isotropic radiator R
- = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Table 1: MPE Calculation

Antenna	Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
2	902.4	22.99	0.60	199.07	2.1	1.622	20	0.064
3	1850	25	1.00	316.23	2.3	1.698	20	0.107
3	1710	25	1.00	316.23	2.3	1.698	20	0.107
1	824	25	0.55	316.23	1.3	1.349	20	0.085
1	699	25	0.47	316.23	1.3	1.349	20	0.085
1	777	25	0.52	316.23	1.3	1.349	20	0.085

Summation of MPE ratios – Simultaneous Transmissions

This device contains multiple transmitters which can operate simultaneously; therefore, the maximum RF exposure is determined by the summations of MPE ratios. The limit is such that the summation of MPE ratios is less than or equal to 1.0.

Table 2: Summation of MPE Ratios

	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
Radio A	X	X	X	X	X
Radio B	X				
Radio C		X			
Radio D			X		
Radio E				X	
Radio F					X
Radio A MPE Ratio	0.106763381	0.106763381	0.106763381	0.106763381	0.106763381
Radio B MPE Ratio	0.106839081				
Radio C MPE Ratio		0.175279104			
Radio D MPE Ratio			0.154487801		
Radio E MPE Ratio				0.182114375	
Radio F MPE Ratio					0.163832623
MPE Ratio Summation:	0.106839081	0.175279104	0.154487801	0.182114375	0.163832623