

Page 1 of 23

Applicant (GAS003):	Gatekeeper Systems (HK) Ltd. Unit 2318-2319, Level 23, Tower 1, Metroplaza No. 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong.				
Manufacturer:	Gatekeeper Syste Unit 2318-2319, 1 Hing Fong Road,	ms (HK) Ltd. Level 23, Tower 1, Metroplaza No. 223 Kwai Fong, N.T., Hong Kong.			
Description of Sample(s):	Submitted sample Product: Brand Name: Model Number: FCC ID:	e(s) said to be Mini Central Transmitter Gatekeeper Systems D-9129 W3Z-D9129			
Date Sample(s) Received:	2012-06-27				
Date Tested:	2012-07-30 to 20	12-07-31			
Investigation Requested:	Perform ElectroM accordance with I Part 15: 2011 and	Augnetic Interference measurement in FCC 47CFR [Codes of Federal Regulations] ANSI C63.4:2009 for FCC Certification.			
Conclusion(s):	The submitted product <u>COMPLIED</u> with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.				
Remark(s):					



Dr. LEE Kam Chuen Authorized Signatory ElectroMagnetic Compatibility Department For and on behalf of The Hong Kong Standards and Testing Centre Ltd.

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Date : 2012-08-07 No. : HM167709 **CONTENT:** Page 1 of 23 Cover Page 2 of 23 Content <u>1.0</u> **General Details** 1.1 Equipment Under Test [EUT] Page 3 of 23 Description of EUT operation 1.2 Description of EUT Operation 1.3 Date of Order Page 3 of 23 Page 3 of 23 1.4 Submitted Sample Page 3 of 23 1.5 Test Duration Page 3 of 23 1.6 Country of Origin <u>2.0</u> **Technical Details** Page 4 of 23 2.1 Investigations Requested 2.2 Test Standards and Results Summary Page 4 of 23 <u>3.0</u> **Test Results** Page 5-19 of 23 3.1 Emission Appendix A Page 20 of 23 List of Measurement Equipment **Appendix B** Page 21-23 of 23 Photographs

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Page 2 of 23



Page 3 of 23

<u>1.0</u> General Details

1.1 Equipment Under Test [EUT] Description of Sample(s)

Product: Manufacturer:

Brand Name: Model Number: Input Voltage: Mini Central Transmitter Gatekeeper Systems (HK) Ltd. Unit 2318-2319, Level 23, Tower 1, Metroplaza No. 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong. Gatekeeper Systems D-9129 110-240Va.c.

1.2 Description of EUT Operation

The Equipment Under Test (EUT) is a Gatekeeper Systems (HK) Ltd., Mini Central Transmitter. The transmission signal is frequency hopping with channel frequency range 2402.9-2478.6MHz during normal use. The EUT was set to fixed frequency test mode before test by selecting the stored commands by turning the control knob.

1.3 Date of Order

2012-06-27

1.4 Submitted Sample(s):

1 Sample

1.5 Test Duration

2012-07-30 to 2012-07-31

1.6 Country of Origin

China

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Page 4 of 23

2.0 <u>Technical Details</u>

2.1 Investigations Requested

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2011 Regulations and ANSI C63.4:2009 for FCC Certification.

2.2 Test Standards and Results Summary Tables

EMISSION Results Summary								
Test Condition	Test Requirement	Test Method	Class /	T	est Resi	ılt		
			Severity	Pass	Fail	N/A		
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.4:2009	N/A	\boxtimes				
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.4:2009	N/A	\boxtimes				
AC Mains Conducted Emissions	FCC 47CFR 15.207	N/A	N/A	\boxtimes		Þ		

Note: N/A - Not Applicable



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Page 5 of 23

3.0	Test Results

3.1 Emission

3.1.1 Radiated Emissions

Test Requirement: Test Method: Test Date: Mode of Operation: FCC 47CFR 15.249 ANSI C63.4:2009 2012-07-30 Mode (500kbps) / Rx Mode

Test Method:

The sample was placed 0.8m above the ground plane on a standard radiated emission test site. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)	RBW: VBW: Sweep: Span: Trace:	10kHz 30kHz Auto Fully capture the emissions being measured Max. hold
30MHz – 1GHz (QP)	RBW: VBW: Sweep: Span: Trace:	120kHz 120kHz Auto Fully capture the emissions being measured Max. hold
Above 1GHz (Pk & Av)	RBW: VBW: Sweep: Span: Trace:	3MHz 3MHz Auto Fully capture the emissions being measured Max. hold

Test Setup:



Ground Plane

Absorbers placed on top of the ground plane are for measurements above 1000MHz only.



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Page 7 of 23

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

	Frequency Range of Fundamental	Field Strength of Fundamental Emission	Field Strength of Harmonics Emission		
	[MHz]	[microvolts/meter]	[microvolts/meter]		
22	902-928	50,000 [Average]	500 [Average]		
	2400-2483.5	50,000 [Average]	500 [Average]		

Results of Tx mode (Ch. 6, 500kbps): Pass

	Field Strength of Fundamental Emissions						
	Peak Value						
F	requency	Measured	Correction	Field	Field	Limit @3m	E-Field
		Level @3m	Factor	Strength	Strength		Polarity
	MHz	dBµV/m	dBµV/m	dBµV/m	$\mu V/m$	$\mu V/m$	
	2402.9	66.9	28.0	94.9	55,590.4	500,000	Horizontal
*	4806.5	26.8	32.9	59.7	966.1	5,000	Horizontal
	7210.1	4.9	37.2	42.1	127.4	5,000	Horizontal
	9611.6					5,000	Vertical
*	12014.5					5,000	Vertical
	14417.4					5,000	Vertical
	16820.3	E	missions dete	cted are more	than	5,000	Vertical
*	19223.2	20 dB below the FCC Limits			5,000	Vertical	
	21626.1			5,000	Vertical		
	24029.0			C		5,000	Vertical

	Field Strength of Fundamental Emissions						
		A	Average Valu	ie			
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
	Level @3m	Factor	Strength	Strength		Polarity	
MHz	$dB\mu V/m$	dBµV/m	dBµV/m	μV/m	μV/m		
2402.9	42.9	28.0	70.9	3,507.5	50,000	Horizontal	
* 4806.5	5.7	32.9	38.6	85.1	500	Horizontal	
7210.1	0.7	37.2	37.9	78.5	500	Horizontal	

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz *: Denotes restricted band of operation.

:

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty

30MHz to 1GHz 1GHz to 18GHz

5.1dB

5.2dB

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No. : HM167709

Page 8 of 23

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental	Field Strength of Fundamental Emission	Field Strength of Harmonics Emission
[MHz]	[microvolts/meter]	[microvolts/meter]
902-928	50,000 [Average]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

Results of Tx mode (Ch. 128, 500kbps): Pass

	Field Strength of Fundamental Emissions							
	Peak Value							
F	Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
		Level @3m	Factor	Strength	Strength		Polarity	
	MHz	dBµV/m	dBµV/m	dBµV/m	$\mu V/m$	μV/m		
	2441.6	66.7	28.0	94.7	54,325.0	500,000	Horizontal	
*	4883.2	25.3	33.0	58.3	822.2	5,000	Horizontal	
	7325.7	4.2	37.2	41.4	117.5	5,000	Horizontal	
	9766.4			-		5,000	Vertical	
*	12208.0					5,000	Vertical	
	14649.6					5,000	Vertical	
	17091.2	E	Emissions detected are more than				Vertical	
*	19532.8	20 dB below the FCC Limits				5,000	Vertical	
	21974.4				5,000	Vertical		
	24416.0		\mathbf{O}		()	5,000	Vertical	

	Field Strength of Fundamental Emissions					
		A	Average Valu	ie	G	
Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field
	Level @3m	Factor	Strength	Strength		Polarity
MHz	$dB\mu V/m$	dBµV/m	dBµV/m	$\mu V/m$	$\mu V/m$	
2441.6	43.1	28.0	71.1	3,589.2	50,000	Horizontal
* 4883.2	4.8	33.0	37.8	77.6	500	Horizontal
7325.7	1.3	37.2	38.5	84.1	500	Horizontal

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz *:

Denotes restricted band of operation. Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty

30MHz to 1GHz 1GHz to 18GHz

5.2dB 5.1dB

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No. : HM167709

Page 9 of 23

Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

Frequency Range of Fundamental	Field Strength of Fundamental Emission	Field Strength of Harmonics Emission		
[MHz]	[microvolts/meter]	[microvolts/meter]		
902-928	50,000 [Average]	500 [Average]		
2400-2483.5	50,000 [Average]	500 [Average]		

Results of Tx mode (Ch. 247, 500kbps): Pass

	Field Strength of Fundamental Emissions							
	Peak Value							
F	Frequency	Measured	Correction	Field	Field	Limit @3m	E-Field	
		Level @3m	Factor	Strength	Strength		Polarity	
	MHz	dBµV/m	dBµV/m	dBµV/m	$\mu V/m$	$\mu V/m$		
	2478.6	67.2	28.0	95.2	57,544.0	500,000	Horizontal	
*	4952.2	26.6	33.1	59.7	966.1	5,000	Horizontal	
	7426.8	4.9	37.2	42.1	127.4	5,000	Horizontal	
	9914.4					5,000	Vertical	
*	12393.0					5,000	Vertical	
	14871.6					5,000	Vertical	
	17350.2	E	missions dete	cted are more	than	5,000	Vertical	
*	19828.8	20 dB below the FCC Limits				5,000	Vertical	
	22307.4				5,000	Vertical		
	24786.0		\bigcirc		()	5,000	Vertical	

	Field Strength of Fundamental Emissions								
/	Average Value								
Free	quency	Measured	Correction	Field	Field	Limit @3m	E-Field		
		Level @3m	Factor	Strength	Strength		Polarity		
Ν	ЛНz	dBµV/m	dBµV/m	dBµV/m	μV/m	$\mu V/m$			
2	2478.6	45.1	28.0	73.1	4,518.6	50,000	Horizontal		
* 4	4952.2	4.3	33.1	37.4	74.1	500	Horizontal		
7	7426.8	1.2	37.2	38.4	83.2	500	Horizontal		

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz *:

Denotes restricted band of operation. Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

Calculated measurement uncertainty

30MHz to 1GHz 1GHz to 18GHz

5.2dB 5.1dB

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Page 10 of 23



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Page 12 of 23



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Page 13 of 23

No. : HM167709

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Page 14 of 23

No. : HM167709

Band Edge Measurement:



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Page 15 of 23

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

	<u> </u>
Frequency Range	Quasi-Peak Limits
[MHz]	[µV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Tx mode (9kHz - 30MHz): Pass

Emissions detected are more than 20 dB below the limit line(s)

Field Strength of Spurious Emissions									
Quasi-Peak									
Frequency	Measured	Correction	Field	Limit	Margin	E-Field			
	Level @3m	Factor	Strength	@3m		Polarity			
MHz	dBµV	dB/m	dBµV/m	dBµV/m	dBµV/m				
137.4	8.7	9.4	18.1	43.5	-25.4	Horizontal			
141.5	9.4	9.8	19.2	43.5	-24.3	Horizontal			
167.8	9.1	11	20.1	43.5	-23.4	Horizontal			
208.0	17.0	12.2	29.2	43.5	-14.3	Vertical			
287.7	16.4	15	31.4	46.0	-14.6	Vertical			
350.6	16.7	17.3	34.0	46.0	-12.0	Vertical			

Result of Tx mode (30MHz - 1GHz): Pass

Result of Tx mode (1GHz - 26GHz): Pass

Emissions detected are more than 20 dB below the limit line(s)

Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

Correction Factor included Antenna Factor and Cable Attenuation.

Calculated measurement	uncertainty	:	30MHz to 1GHz	5.2dB	
			1GHz to 18GHz	5.1dB	

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Page 16 of 23

Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

Frequency Range [MHz]	Quasi-Peak Limits [µV/m]		
0.009-0.490	2400/F (kHz)		
0.490-1.705	24000/F (kHz)		
1.705-30	30		
30-88	100		
88-216	150		
216-960	200		
Above960	500		

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

Result of Rx Mode (9kHz - 30GHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Results of Rx mode (30MHz - 25GHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

Remarks:

No additional spurious emissions found betw	/een	lowest internal used/genera	ted frequency and	30 MHz
Correction Factor included Antenna Factor a	nd C	able Attenuation.		
Calculated measurement uncertainty	:	30MHz to 1GHz	5.2dB	

1GHz to 18GHz

5.1dB

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Page 17 of 23

3.1.3 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: Test Method: Test Date: Mode of Operation: Test Voltage: FCC 47CFR 15.207 ANSI C63.4:2009 2012-07-31 On mode 117Va.c., 60Hz

Test Method:

The test was performed in accordance with ANSI C63.4: 2009, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:





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Page 18 of 23

Limit for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

Results of On Mode: Pass

Please refer to the following diagram for individual results.





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Page 19 of 23

Results of On Mode: Pass

		Quasi-peak		Average	
Conductor Live or Neutral	Frequency MHz	Level dBµV	Limit dBµV	Level dBµV	Limit dBµV
Live	0.405	_*_	_*_	36.9	48.0
Neutral	0.160	32.7	66.0	_*_	_*_
Neutral	0.270	_*_	_*-	36.0	51.0
Neutral	0.335	_*_	_*_	38.8	49.0
Neutral	0.350	42.8	59.0	_*_	_*_
Neutral	0.405	41.4	58.0	_*_	_*_
Neutral	0.470	38.9	57.0	_*_	_*_
Neutral	0.540	35.5	56.0	_*_	_*_
Neutral	0.675	34.0	56.0	_*_	_*_
Neutral	0.740	31.6	56.0	_*_	_*_
Neutral	3.030	18.4	56.0	_*_	_*_
Neutral	9.895	31.4	60.0	_*_	_*_
Neutral	10.230	_*_	_*_	33.1	50.0
Neutral	10.365	-*-	_*_	33.1	50.0
Neutral	10.500	_*-	-*-	32.8	50.0
Neutral	10.635	_*_	_*_	32.1	50.0
Neutral	10.770	33.2	60.0	30.8	50.0
Neutral	10.970	_*_	_*_	32.3	50.0

Remarks:

Calculated measurement uncertainty : 3.97dB

-*- Emission(s) that is far below the corresponding limit line.



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No. : HM167709

Appendix A

		Radiated Emi	ssion			
EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM276	Broadband Horn Antenna	A-INFOMW	JXTXLB- 10180-SF	J20310909030 07	2010/08/21	2013/08/21
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	ЕМСО	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-Linggren	FACT-3		2011/10/25	2012/10/25
EM219	BICONILOG ANTENNA	EMCO	3142C	00029071	2011/03/01	2013/03/01
EM229	EMI Test Receiver	R&S	ESIB40	100248	2012/05/03	2013/05/03
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2010/09/07	2012/09/07

Remarks:-

- CM Corrective Maintenance
- N/A Not Applicable or Not Available
- TBD To Be Determined



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Page 20 of 23



Page 21 of 23





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Photographs of EUT

Measurement of Radiated Emission Test Set Up Measurement of Radiated Emission Test Set Up

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Page 22 of 23



Page 23 of 23



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