

## FCC Part 15D – Compliance Information

### EUT AND PRODUCT INFORMATION

Type of Equipment	UPCS (DECT 6.0)
Applicant Name	HM Electronics, Inc.
Address	Whiptail Loop, Carlsbad, CA 92010, USA
Contact	Douglas Paul Sieh
Telephone	(858) 848-3729
Email	<a href="mailto:dsieh@hme.com">dsieh@hme.com</a>
Brand Name	HME

	Base Station	Handset / Portable	WRS
<b>EUT Type/System</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>FCC ID</b>	BYMRFM1G9-US		
<b>ISED ID (Canada)</b>			
<b>Model name</b>	RFM1G9-US		
<b>HW Version</b>	T12979		
<b>SW Version</b>	v1		
<b>Maximum Antenna Gain</b>	2.8dBi		
<b>Can the EUT be Initiating Device</b>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES
<b>Does the EUT transmit signaling channels</b>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> YES
<b>Max. # of slots in use simultaneously</b>	12 for TX and 12 for RX		
<b>Frequency Band</b>	1921.536 – 1928.448 MHz		
<b>Number of RF Channels</b>	5		
<b>Frame Period</b>	10 ms		
<b>Max. Burst length</b>	383 usec		
<b>Min. Burst Length</b>	661 usec		
<b>Min. # of System Channels</b>	5 * 12 = 60		
<b>Supported DECT Slot Types</b>	<input checked="" type="checkbox"/> Full Slot	<input checked="" type="checkbox"/> Long Slot	<input type="checkbox"/> Double Slot
<b>Operating Mode</b>	<input type="checkbox"/> Simplex	<input checked="" type="checkbox"/> Duplex	

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ANTENNAS				
Base Station	Antenna	Type	Internal	External
	1	PIFA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2	PIFA	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3		<input type="checkbox"/>	<input type="checkbox"/>
	4		<input type="checkbox"/>	<input type="checkbox"/>
Does RX and TX use the same antenna(s)?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Handset	Antenna	Type	Internal	External
	1		<input type="checkbox"/>	<input type="checkbox"/>
	2		<input type="checkbox"/>	<input type="checkbox"/>
Does RX and TX use the same antenna(s)?			<input type="checkbox"/> Yes	<input type="checkbox"/> No

ANTENNA DIVERSITY				
	Antenna	Diversity Supported		
		TX	RX	
Base Station	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	3	<input type="checkbox"/>	<input type="checkbox"/>	
	4	<input type="checkbox"/>	<input type="checkbox"/>	
Handset	1	<input type="checkbox"/>	<input type="checkbox"/>	
	2	<input type="checkbox"/>	<input type="checkbox"/>	

VOLTAGE AND TEMPERATURE RANGES			
VOLTAGES	Base Station	Handset or Portable	WRS
Nominal Voltage	12VDC		
Cut-Off Voltage (if applicable)	10.8VDC to 13.2VDC		
POWER SOURCE	Type		Manufacturer
Base Station or WRS	<ul style="list-style-type: none"> <li>• PoE (IEEE 802.3af)</li> <li>• 12VDC connector from external AC/DC power supply 100-240V @ 10A</li> <li>• USB-C</li> </ul>		12VDC connector is from Kycon  External AC/DC power supply manufacturer is from Adapter Technology Co Ltd.
Handset (Charger)			
Connections on Base	<input type="checkbox"/> PSTN <input checked="" type="checkbox"/> USB <input checked="" type="checkbox"/> Ethernet <input checked="" type="checkbox"/> Others (please specify) .... SFP optical fiber network connections		



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<b>ANCILLARY EQUIPMENT</b>	
<b>Description</b>	Bettpack
<b>Type</b>	Portable
<b>Manufacturer</b>	Clear-Com, LLC
<b>HOST DEVICE</b>	
<b>Description</b>	Base Station
<b>Type</b>	Portable
<b>Manufacturer</b>	Clear-Com, LLC
<b>ADDITIONAL INFORMATION</b>	

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<b>MANUFACTURERS DECLARATIONS</b>		
<b>FCC part 15.323 (c)(5)</b>		
The applicant declares that the system in this application has more than 20 duplex system access channels defined, and that the system is operating in Least Interfered Channel (LIC) mode in accordance with this section.		
Applicant Agrees	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<b>FCC part 15.323 (c)(5)</b>		
No device or group of co-operating devices located within 1m of each other shall during any frame period occupy more than 6 MHz of aggregate bandwidth, or alternatively, more than one third of the time and spectrum windows defined by the system.		
Applicant Agrees	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<b>FCC part 15.323 (c)(10)</b>		
The applicant hereby declares that the system in this application <b>does</b> use the criteria of (c)(10) of this section.		
Applicant Agrees	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<b>FCC part 15.323 (c)(11)</b>		
The applicant hereby declares that system in this application <b>does not</b> use the criteria of (c)(11) of this section.		
Applicant Agrees	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<b>FCC part 15.323 (c)(12)</b>		
The provisions of (c)(10) or (c)(11) of this section <b>shall not</b> be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.		
Applicant Agrees	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<b>ADDITIONAL REMARKS:</b>		
>		
<b>DECLARED BY:</b>		
➤ April 6, 2018	>Douglas Paul Sieh	
Date	Name (print)	
		
		Signature

## FCC Part 15D – Compliance Information

### About this document

This document specifies the information that is needed to select the correct testcases and test procedures for testing to FCC Part 15D. The form must be completed by the applicant and submitted to Nemko before testing is started.

### Preparation of Equipment for Testing

#### Note (a): Number of samples for testing

The following samples are needed for FCC 15D testing:

##### **RF Conducted Tests:**

One sample with a 50 ohm antenna connector (preferably SMA Female). Only one antenna connector is needed for these tests even if the equipment has more than one antenna.

##### **Monitoring Tests:**

One sample with 50 ohm antenna connectors fitted to all antennas (preferably SMA female). Additionally we need a companion device that will work together with the EUT, the companion device must also have antenna connectors on all antennas.

##### **Radiated Tests:**

One sample with integral antennas. This sample will be used to measure Antenna Gain, Part 15B and Power-Line Conducted tests.

#### Note (b): Burst Mode

All RF tests are performed with the EUT in force transmit, aka burst mode. Software and necessary programming tools must be submitted to Nemko together with the test samples before start of testing.

#### Note (c): Monitoring Tests

Monitoring tests are performed in normal operating mode by establishing a connection from the handset (or the initiating device) to the base station (or the responding device). Most tests are performed by establishing connections from the initiating device to the responding device and observing which channel and/or timeslot is used.

For monitoring tests we need a EUT and a Companion device that both have antenna connectors on all antennas (preferably SMA female, again). Additionally, we need access to the CLK100 signal on the Base Station, this is necessary because some of the tests require that the interferers are synced to the DECT frame.

#### Note (d): Connection to an external power supply

Means of connecting the equipment to an external power supply shall be supplied by the applicant together with the equipment to be tested.

Battery operated equipment shall be supplied with the necessary batteries and chargers. All tests on battery operated equipment will be performed with batteries.

#### Note (e): Test-Mode (Loopback Mode)

Loopback Mode is usually not used for FCC testing.