FCC Part 15D – Compliance Information

EUT AND PRODUCT INFORMATION

Type of Equipment	UPCS (DECT 6.0)
Applicant Name	Panasonic Corporation of North America
Address	Two Riverfront Plaza, 9th floor Newark, NJ 07102-5490, USA.
Contact	Ben Botros
Phone	201-348-7760
Email	ben.botros@us.panasonic.com
Brand Name	Panasonic

	BASE STATION	**HANDSET / PORTABLE**	**Wireless Relay Station / Repeater**
EUT Type/System	☐	☒	☐
Modular Approval	☐ YES ☐ LMA	☐ YES ☐ LMA	☐ YES ☐ LMA
FCC ID		ACJ96NKX-TGDA51A	
ISED ID (Canada)		216A-KXTGDA59A	
Model name		USA KX-TGDA86/KX-TGDA83 KX-TGDA50/KX-TGDA51 KX-TGDA52/KX-TGFA85 CANADA KX-TGDA87AC/KX-TGDA85AC KX-TGDA57AC/KX-TGDA58AC KX-TGDA59AC/ KX-TGFA87AC	
HVIN		USA KX-TGDA86/KX-TGDA83 KX-TGDA50/KX-TGDA51 KX-TGDA52/KX-TGFA85 CANADA KX-TGDA87AC/KX-TGDA85AC KX-TGDA57AC/KX-TGDA58AC KX-TGDA59AC/ KX-TGFA87AC	
PMN		USA KX-TGDA86/KX-TGDA83 KX-TGDA50/KX-TGDA51 KX-TGDA52/KX-TGFA85 CANADA KX-TGDA87AC/KX-TGDA85AC KX-TGDA57AC/KX-TGDA58AC KX-TGDA59AC/ KX-TGFA87AC	
HW Version		S1	
SW Version		SW1.00	
Maximum Antenna Gain		0dBi	
Is EUT Initiating Device	☐ YES	☐ YES	☐ YES
Does EUT transmit signaling channels	☐ YES	☐ YES	☐ YES
Number of slots in use simultaneously		1 slot	
Frequency Band	1921.536 – 1928.448 MHz		
Number of RF Channels	5		

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Frame Period	10 ms		
Max. Burst length	417us / duplex channel		
Min. Burst Length	106us / signaling channel		
Number of System Channels	60 (12 duplex channels per RF carrier)		
Supported DECT Slot Types	☒ Full Slot	☐ Long Slot	☐ Double Slot
Operating Mode	☐ Simplex	☒ Duplex	

ANTENNA DIVERSITY			
	Antenna	**Diversity Supported**	
		TX	**RX**
Base Station	1	☐	☐
	2	☐	☐
	3	☐	☐
	4	☐	☐
Handset	1	☐	☐
	2	☐	☐

ANTENNAS				
Base Station	**Antenna**	**Type**	**Internal**	**External**
	1		☐	☐
	2		☐	☐
	3		☐	☐
	4		☐	☐
	Does RX and TX use the same antenna(s)?		☐ Yes	☐ No
Handset	**Antenna**	**Type**	**Internal**	**External**
	1	Pattern Antenna	☒	☐
	2		☐	☐
	3		☐	☐
	Does RX and TX use the same antenna(s)?		☒ Yes	☐ No

VOLTAGE AND TEMPERATURE RANGES			
VOLTAGES	**Base Station**	**Handset or Portable**	**WRS**
Nominal Voltage	-	DC 2.4V	-
Cut-Off Voltage (if applicable)	-	-	-
POWER SOURCE	**Type**	**Manufacturer**	
Base Station or WRS	-	-	
Handset (Charger)	PNLV233 (Charger)	Panasonic	
Connections on Base	☒ PSTN ☐ USB ☐ Ethernet ☐ Others (please specify)		

ANCILLARY EQUIPMENT	
Description	Charger

Nemko AS, Instituttveien 6, 2007 Kjeller, Norway
Tel: +47 22 96 03 30 Fax: +47 22 96 05 50
Email: frode.sveinsen@nemko.com

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Type	PNLV233 (Charger)
Manufacturer	Panasonic

HOST DEVICE	
Description	
Type	
Manufacturer	

ADDITIONAL INFORMATION

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MANUFACTURERS DECLARATIONS		
FCC part 15.323 (c)(5)		
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	**☒ Yes**	**☐ No**
FCC part 15.323 (c)(5)		
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	**☒ Yes**	**☐ No**
FCC part 15.323 (c)(10)		
The applicant hereby declares that the system in this application does use the criteria of (c)(10) of this section.		
Applicant Agrees	**☒ Yes**	**☐ No**
FCC part 15.323 (c)(11)		
The applicant hereby declares that system in this application does not use the criteria of (c)(11) of this section.		
Applicant Agrees	**☒ Yes**	**☐ No**
FCC part 15.323 (c)(12)		
The provisions of (c)(10) or (c)(11) of this section shall not 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	**☒ Yes**	**☐ No**
ADDITIONAL REMARKS:		
>		

DECLARED BY:

January 30, 2023 ➢ Ben Botros

Date Name (print)

Signature

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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.