

FCC Part 15D – Compliance Information

EUT AND PRODUCT INFORMATION

Type of Equipment	UPCS (DECT 6.0)
Applicant Name	Panasonic Corporation of North America
Responsible Mfr Name	Panasonic System Networks Co., Ltd. Security Systems Business Division
Address	1-62, 4-chome, Minoshima, Hakata-ku, Fukuoka 812-8531, Japan
Contact	Yukio Kaneko

	Center Module Single Lane Center Module Dual Lane FP	Belt Pack All-in-One Headset PP	Repeater
EUT Type/System	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FCC ID	ACJ9TAWX-CC411 ACJ9TAWX-CC412	ACJ9TAWX-CT420 ACJ9TAWX-CH450	ACJ9TAWX-CR470
Industry Canada ID	216A-WXCC411 216A-WXCC412	216A-WXCT420 216A-WXCH450	216A-WXCR470
Model name	WX-CC411 WX-CC412	WX-CT420 WX-CH450	WX-CR470
HW Version	XCC411RY1Y	XCH450RY1Y	PNLB1754ZA
SW Version	V0.04R00	v0.04R00	4.11
Maximum Antenna Gain	2.14dBi	2.14dBi	1dBi
Can the EUT be Initiating Device	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> YES	<input checked="" type="checkbox"/> YES
Does the EUT transmit signaling channels	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> YES
Max number of slots in use simultaneously	5 slots	5 slots	4 slots
Test standard:	<input checked="" type="checkbox"/> FCC part 15D	<input checked="" type="checkbox"/> RSS-213, Issue 2 / RSS-GEN, Issue 3	
Frequency Band	1921.536 – 1928.448 MHz		
Number of RF Channels	5		
Frame Period	10 ms		
Max. Burst length	417us / duplex channel		
Min. Burst Length	106us / signaling channel		
Minimum Number of System Channels	60 (12 duplex channels per RF carrier)		
Supported DECT Slot Types	<input checked="" type="checkbox"/> Full Slot	<input type="checkbox"/> Long Slot	
Operating Mode	<input type="checkbox"/> Simplex	<input checked="" type="checkbox"/> Duplex	

FCC Part 15D – Compliance Information

ANTENNAS				
Base (FP), Repeater	Antenna	Type	Internal	External
	1	Pattern Antenna	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2	Pattern Antenna	<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 (PP)	Antenna	Type	Internal	External
	1	Pattern Antenna	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2		<input type="checkbox"/>	<input type="checkbox"/>
Does RX and TX use the same antenna(s)?			<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

ANTENNA DIVERSITY			
	Antenna	Diversity Supported	
		TX	RX
Base (FP), Repeater	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 (PP)	1	<input type="checkbox"/>	<input type="checkbox"/>
	2	<input type="checkbox"/>	<input type="checkbox"/>

VOLTAGE AND TEMPERATURE RANGES			
VOLTAGES	Center Module FP	Belt Pack All-in-One Headset PP	Repeater
Nominal Voltage	120V AC	DC 3.7V	120V AC
Cut-Off Voltage (if applicable)	---	DC 3.3V	---
POWER SOURCE	Type	Manufacturer	
Center Module(FP)	Switching Power Supply unit with @ 200 kHz incorporated in the product Model VC30C-24	TDK LAMDA	
Belt Pack/ Headset (PP)	One Lithium ion Battery	SANYO	
Repeater	AC Adapter with SPS @ 37 kHz, Model PQLV219(FW)	Panasonic	
Data Connections	<input type="checkbox"/> PSTN <input type="checkbox"/> Others (please specify)		

FCC Part 15D – Compliance Information

ANCILLARY EQUIPMENT	
Description	
Type	
Manufacturer	

HOST DEVICE	
Description	
Type	
Manufacturer	

ADDITIONAL INFORMATION

FCC Part 15D – Compliance Information

MANUFACTURERS DECLARATIONS

FCC part 15.323 (c)(5)

The applicant declares that the system in this application has more than 40 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

FCC part 15.307 (b)

The Applicant is a participating member of UTAM, Inc. and will provide an affidavit from UTAM, Inc. certifying this.

Confirmed By Applicant Yes No

ADDITIONAL REMARKS:

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DECLARED BY:

November 7, 2013

Date

Richard Mullen

Name (print)

Richard Mullen

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): Monitoring Tests

Monitoring tests are performed 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 (c): 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 (d): Burst Mode

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

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

Some FCC test may also be performed in Loopback Mode with a CMD60 or similar DECT tester. If loopback mode is implemented in the EUT, the method for setting the equipment in Loopback should be submitted to Nemko together with the test samples before start of testing.