

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	\boxtimes			
Modular Approval	☐ YES ☐ LMA	☐ YES ☐ LMA	☐ YES ☐ LMA	
FCC ID	ACJ96NKX-TG9541A			
ISED ID (Canada)	IC: 216A-KXTG9541A			
Model name	KX-TG9541, KX-TG9551 KX-TG9541AC			
HVIN	KX-TG9541, KX-TG9551 KX-TG9541AC			
PMN	KX-TG9541, KX-TG9551 KX-TG9541AC			
HW Version	MP			
SW Version	SW403			
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	1 slot		
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			
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		\boxtimes	
	2		\boxtimes	
	3			
	4			
Handset	1			
	2			



FCC Part 15D - Compliance Information

ANTENNAS						
Base Station	Antenna	Туре			nternal	External
1		Wired Ar		'		
	2	Pattern A			\boxtimes	
	3	T ditoiii 7	intornia			
	4					
		use the same antenna(s)?		I ⊠ Yes		□ No
Handset	Antenna	Тур	е		nternal	External
	1	, , , , , , , , , , , , , , , , , , ,				
	2					
	3					
	Does RX and TX	use the same antenna(s)?		□ Yes	3	□ No
VOLTAGE AND TI	EMPERATURE RA	NGES				
VOLTAGES		Base Station	Handset of	or Portable	,	WRS
Nominal Voltage		120V AC				
Cut-Off Voltage (if	applicable)	-				
POWER SOURCE		Туре		N	Manufacturer	
Base Station or W	/RS	PNLV234 (AC Adaptor)			Panasonic	
Handset (Charger)					
Connections on Base		 ☑ PSTN ☐ USB ☐ Ethernet ☐ Others (please specify) 				
ANCILLARY EQUI	IPMENT					
Description		AC Adaptor				
Туре		PNLV234 (AC Adaptor)				
Manufacturer Panasonic						
HOST DEVICE						
Description						
Туре						
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 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	pplicant Agrees □ 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 s section.	ystem in this application does not use	e the criteria of (c)(11) of this	
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: June 29, 2021 Ben Botros Baybar			



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.