

### **EUT AND PRODUCT INFORMATION**

Type of Equipment	UPCS (DECT 6.0)	
Applicant Name	Sennheiser Electronic Corporation	
Address	One Enterprise Drive, Old Lyme ,CT .06371	
Contact	Greg Beebe	
Telephone	+1 860 434 9190	
Email	gbeebe@sennheiserusa.com	
Grantee Code	0007220122	
IC Company Number	DMO	
Brand Name	Sennheiser	
Model Number	Same as Model name	

	FP	PP	Repeater
EUT Type/System		$\boxtimes$	
FCC ID	DMOCBDDGG	DMOCDHDGG	
Industry Canada ID	2099A-D10BSPHONE	2099A-D10HS	
Model name	D 10 BS PHONE D 10 BS USB D 10 BS USB ML DW BS - US DW BS USB - US DW BS USB ML - US DW BS ML-US DW BS PHONE - US SD BS-US SD BS USB-US SD BS USB ML - US SD BS HL - US SD BS ML - US SD BS PHONE - US OR BS BIUS - US	D 10 HS DW 10 HS DW 20 HS DW 30 HS SD 10 HS SD 20 HS SD 30 HS OR 10 HS	
HW Version	IFB V4D, WCB V2C	V3C	
SW Version	V0122	V0122	
Maximum Antenna Gain	2 dBi	2 dBi	
Can the EUT be Initiating Device	⊠ YES	☐ YES	☐ YES
Does the EUT transmit signaling channels	☐ YES	YES	☐ YES
Max number of slots in use simultaneously	4TX/RX	1TX/RX	
Test standard:			SS-GEN, Issue 3
Frequency Band	1921.536 - 1928.448 M	Hz	



Number of RF Channels	5		
Frame Period	10 ms		
Max. Burst length			
Min. Burst Length			
Minimum Number of System Channels	5 frequencies, 12 single time slots per frequency giving 60 channels		
Supported DECT Slot Types	⊠ Full Slot	⊠ Long Slot 1,5	
Operating Mode	Simplex	□ Duplex	



ANTENNAS					
Base (FP)	Antenna	Туре	Int	ernal	External
	1	F-Type		$\boxtimes$	
	2	F-Type		$\boxtimes$	
	3				
	4				
	Does RX and TX use the same antenna(s)?		⊠ Yes		☐ No
Handset (PP)	Antenna	Туре	Inte	ernal	External
	1	Single pole		$\boxtimes$	
	2	F-Type		$\boxtimes$	
	Does RX and TX use th	ne same antenna(s)?	⊠ Yes		☐ No

ANTENNA DIVE	ERSITY		
12002-2000	Antenna	Diversity	Supported
		TX	RX
Base (FP)	1	$\boxtimes$	$\boxtimes$
	2	$\boxtimes$	$\boxtimes$
	3		
	4		
Handset (PP)	1		$\boxtimes$
	2		$\boxtimes$

VOLTAGES	FP	PP		Repeater
Nominal Voltage	110V AC / 5.9V DC	3.7V		
Cut-Off Voltage (if applicable)	3.3V DC			
POWER SOURCE	Туре		Manufacturer	
Base or Repeater				
Handset (PP) (charger)	Power Adaptor / Base station- all base stations		Sennheiser m	nodel PSAA05E-060
Data Connections	☐ PSTN ☐ Others (please specify) USB DECT (portable part) headsets DW / SD / OR / OR Blue , Laptop with softphone program and Cisco IP phone SPA504G			



Description	DECT (portable part) headset DW / SD / OR / OR Blue , Laptop with softphone program and Cisco IP phone SPA504G
Туре	
Manufacturer	Sennheiser
HOST DEVICE	
Description	
Туре	
Manufacturer	
ADDITIONAL INFOR	RMATION
to the control state of the control state of the control state of the control of	



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 <b>does</b> 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 <b>does not</b> 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 <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	⊠ 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:					
>					
DECLARED BY:					
>11-12-2014 >Edina Mujan  Date Name (print) Signature					
Date Name	(print) Signature				



#### 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.

#### Monitorina 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.