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Applicant's self-declaration concerning DECT wideband system

Federal Communications Commission

Application for FCC ID: DMOCDBDIB; DMOCDBDKB; DMOCDHDKB

With reference for KDB publication number 377704, Sennheiser Communications A/S hereby declares that the product : DW Office (DECT base station & headset) meet the criteria as set out in the FCC answer of the publication 377704

Request:

Can a DECT CAT -iq system that defines five frequency bands divided into 12 time slots for each band ,for a total of 60 duplex time/frequency windows , apply the provision of Section 15.323 (c) (5)if a connection uses an access channels with one or two time windows ? For the case when two time/ frequency windows are used the system would still monitor 60 time/frequency windows.

Answer :

A DECT CAT -iq system that has 60 duplex time and spectrum windows and complies the provisions of Section 15.323 (c) (5)may allow an access channel to use one or two time and spectrum windows under the following conditions :

FCC Answer		Self Declaration
The system must be capable of defining a minimum of 40 duplex access channels	Complies	DW office defines 56 access channels but monitors 60 channels.
Multiple time windows on the same frequency (with or without gaps between them) are permitted for a connection only if the multiple time windows determined for the emission bandwidth are the lowest power levels below a monitoring threshold of 50 dB above the thermal noise power .	Complies	DW Office monitors the windows and select first windows below a monitoring threshold of 30dB above thermal noise power. If no windows are available below the 30dB threshold the 50dB threshold is used.
Time frequency windows that are dedicated to a connection that always uses multiple time/ frequency windows are counted as one channel* For example , a device that uses 40 duplex time/frequency windows and can define 40 duplex channels meets the 40 channel requirement .It is permissible to use multiple time windows on the same frequency with or without gaps between them , for a connection; However , if 12 of the 40 time/ frequency windows are dedicated to two time/frequency windows per connection, than the 12 time / frequency windows can only define 6 channels and the device is considered to only monitor 34 channels.	Complies	DW office uses 1 or 2 duplex channels .Each channel can be 1 or 2 time windows .The defined channel number is consequently 56 (5 frequencies with each 12 time windows minus 2 channels with each 2 windows)

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<p>A DECT CAT -iq long -slot may be regarded as two time windows on the same frequency bonded together without any gap .In addition ,the device must verify , within the 20 milliseconds (40 milliseconds for devices designed to use a 20 milliseconds frame period)immediately preceding actual channel, access that the detected power of the selected time and spectrum windows is no higher than the previously detected value .</p>	<p>Complies</p>	<p>DW Office supports a 10ms frame period and monitors the spectrum as defined above</p>
<p>The power measurement resolution for this comparison must be accurate to within 6dB</p>	<p>Complies</p>	<p>The chipset used in DW office meets this accuracy</p>
<p>No device or group of cooperating devices located within one meter 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</p>	<p>Complies</p>	<p>DW Office uses maximum 4/ 60 of the spectrum</p>

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(Date)

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