

FCC Part 15D - SELF-DECLARATION for DECT CAT-iq system (A system that defines a channel as capable of using time/frequency windows bonded in the time domain)

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Model Number:	KX-TGP550	
FCC ID:	ACJ96NKX-TGP550	

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Question to FCC for DECT CAT-iq (KDB Publication #377704)
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 provisions of Section 15.323 (c) (5) if a connection uses an access channel 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.

FCC Answer		SELF-DECLARATION
A DECT CAT-iq system that has 60 duplex time and spectrum windows and complies with 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:	yes	This system that has a 60 duplex time and spectrum windows and complies with the provisions of Section 15.323 (c) (5) to use one or two time and spectrum windows under the following conditions:
The system must be capable of defining a minimum of 40 duplex access channels.	yes	This system defines 60 time/frequency windows, and a channel as capable of two time windows on the same frequency bonded together without any gap. (A CAT-iq long-slot).
Multiple time windows on the same frequency (with or without gaps between them) are permitted for a connection only if the monitored equivalent power levels of 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.	yes	LIC procedure selects the "clearest" time frequency windows within the resolution window of 6 dB below this "Upper Threshold". And only the two time windows on the same frequency both in this "clearest group" can be bonded in the time domain to use for a Long-slot connection.
Time/frequency windows that are dedicated to a connection that always uses multiple time/frequency windows are counted as one channel.*	yes	This system doesn't have any Time/frequency windows that are dedicated to a connection that always uses multiple time/frequency windows (A DECT CAT-iq "long-slot"). Every Time/frequency windows can be used for a single time frequency window (full-slot).
A DECT CAT-iq long-slot may be regarded as two time windows on the same frequency bonded together without any gap.	yes	This system defines a channel as capable of using 2 time/frequency windows bonded in the time domain (A DECT CAT-iq "long-slot")
In addition, the device must have monitored all access channels defined for its system within the last 10 seconds and 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.	yes	This system has monitored all access channels within the last 10 seconds, and verify within the 20 milliseconds immediately preceding actual channel access that the detected power of the selected time and spectrum windows is no higher than the previously detected value.
The power measurement resolution for this comparison must be accurate to within 6 dB.	yes	The power measurement resolution for this comparison is within 6 dB.
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.	yes	This system occupies Max 12 of Total 60 time frequency window simultaneously, and does not use bandwidth in further cooperation with other devices at any range.

*** Note**

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, then the 12 time/frequency windows can only define 6 channels and the devices considered to only monitor 34 channels.

Signed by: S. Kinoshita

Signature:

S. Kinoshita

Date: August 19, 2009