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Report No.: 1803RSU009-U1 Report Version: Issue Date: 05-14-2018

RF Exposure Evaluation Declaration

FCC ID: **XCO-DECT**

IC: 7756A-DECT

Hansong (Nanjing) Technology Ltd APPLICANT:

Application Type: Certification

Product: Wireless Module

Model No.: DECT

Brand Name: Hansong

FCC Classification: Unlicensed PCS Base Station (PUB)

Test Procedure(s): KDB 447498 D01v06

Reviewed By : Suny Sun (Sunny Sun)

Approved By : Marlinchen

(Marlin Chen)





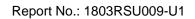
The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

| Report No. | Version | ersion Description | | Note |
|---------------|---------|--------------------|------------|-------|
| 1803RSU009-U1 | Rev. 01 | Initial Report | 05-14-2018 | Valid |
| | | | | |

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1. PRODUCT INFORMATION

1.1. Equipment Description

| Product Name | Wireless Module | |
|--------------|-----------------|--|
| Model No. | DECT | |
| Brand Name: | Hansong | |

1.2. Product Specification Subjective to this Report

| Frequency Range: | 1921.536 ~ 1928.448MHz |
|-----------------------|---|
| Number of Channels: | 5 |
| Maximum Output Power: | 20.025dBm |
| Type of Modulation: | Digital (Gaussian Frequency Shift Keying) |
| Frequency Range: | 1921.536 ~ 1928.448MHz |

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RF Exposure Evaluation

2.1. Limits

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in Note 1 must be applied to determine SAR test exclusion.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
|------|-----|-----|-----|-----|-----|-----------|
| 150 | 39 | 77 | 116 | 155 | 194 | SAR Test |
| 300 | 27 | 55 | 82 | 110 | 137 | Exclusion |
| 450 | 22 | 45 | 67 | 89 | 112 | Threshold |
| 835 | 16 | 33 | 49 | 66 | 82 | (mW) |
| 900 | 16 | 32 | 47 | 63 | 79 | |
| 1500 | 12 | 24 | 37 | 49 | 61 | |
| 1900 | 11 | 22 | 33 | 44 | 54 | |
| 2450 | 10 | 19 | 29 | 38 | 48 | |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 | |
| | | | | | | |
| MHz | 30 | 35 | 40 | 45 | 50 | mm |
| 150 | 232 | 271 | 310 | 349 | 387 | SAR Test |
| 300 | 164 | 192 | 219 | 246 | 274 | Exclusion |
| 450 | 134 | 157 | 179 | 201 | 224 | Threshold |
| 835 | 98 | 115 | 131 | 148 | 164 | (mW) |
| 900 | 95 | 111 | 126 | 142 | 158 | |
| 1500 | 73 | 86 | 98 | 110 | 122 | |
| 1900 | 65 | 76 | 87 | 98 | 109 | |
| 2450 | 57 | 67 | 77 | 86 | 96 | |
| 3600 | 47 | 55 | 63 | 71 | 79 | |
| 5200 | 39 | 46 | 53 | 59 | 66 | |
| 5400 | 39 | 45 | 52 | 58 | 65 | |
| 5800 | 37 | 44 | 50 | 56 | 62 | |

Note: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * $[\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.



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2.2. Test Result of RF Exposure Evaluation

| Product | Wireless Module | |
|-----------|------------------------|--|
| Test Item | RF Exposure Evaluation | |

| Test | Frequency | Maximum | Safety | Power | Limit of Power |
|------|------------------------|---------|----------|-----------------------|-----------------------|
| Mode | Band | EIRP | Distance | Density | Density |
| | (MHz) | (dBm) | (cm) | (mW/cm ²) | (mW/cm ²) |
| DECT | 1921.536 ~ 1928.448 | 20.025 | 20 | 0.0200 | 1 |

The wireless device described within this report has been shown to be capable of compliance with basic restrictions related to human exposure to electromagnetic fields. The calculations shown in this report were made in accordance the procedures specified in the applied test specifications. The safety distance is 20cm.

———— The End ————

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