

**RF Exposure Statement: 50027424 003**

Page 1 of 1

**Client:** **Panasonic System Networks Co., Ltd.**  
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**Test item:** **Hybrid IP-PBX**

**Identification:** **KX-HTS824**

**FCC Requirement**

According to FCC 2.1091 and KDB 447498 D01 v06, mobile equipment must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:

| Equipment Use                                 | Frequency Range | Power Density<br>[mW/cm <sup>2</sup> ] | Average Time [min] |
|-----------------------------------------------|-----------------|----------------------------------------|--------------------|
| General Population /<br>Uncontrolled Exposure | 1.5 – 100GHz    | 1                                      | 30                 |

**IC Requirement**

According to RSS-102 (Issue 5), clause 2.5.2, no routine RF exposure evaluation is required if the transmitter has a minimum separation distance to the user greater than 20cm and has an output power (e.i.r.p.) below the following threshold:

| Transmitter<br>Frequency Range | RF Exp. Evaluation<br>Threshold [W] |
|--------------------------------|-------------------------------------|
| 2.412 – 2.472GHz               | 2.7                                 |

**Measurement Result**

The maximum measured transmitter power is given in the following table:

| Radio              | Conducted Output<br>Power P <sub>out</sub> [mW] | Maximum<br>Antenna Gain<br>[dBi] | EIRP Output<br>Power [mW] | Power Density at<br>20cm [mW/cm <sup>2</sup> ] |
|--------------------|-------------------------------------------------|----------------------------------|---------------------------|------------------------------------------------|
| IEEE 802.11b       | 37.15                                           | 2.14                             | 60.81                     | 0.012                                          |
| IEEE 802.11g       | 67.92                                           | 2.14                             | 111.19                    | 0.022                                          |
| IEEE 802.11n(20HT) | 123.59                                          | 5.15                             | 404.64                    | 0.081                                          |
| IEEE 802.11n(40HT) | 67.76                                           | 5.15                             | 221.85                    | 0.045                                          |

Note:

The power density S in mW/cm<sup>2</sup> is calculated according to the Friis formula:  $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$ , where

P<sub>out</sub> = antenna conducted output power in mW,

G = antenna gain in linear scale (here: 2.14dBi = 1.637 linear and 5.15dBi = 3.274 linear),

D = distance between observation point and radiating structure in cm (here: 20cm).

**Conclusion**

The device complies with the FCC and IC RF exposure requirements since the maximum transmitter power density is below the FCC limit and the e.i.r.p. output power is below the IC RF exposure evaluation exemption threshold.

Refer to test report 50027424 001 for more details.