

Produkte
Products

RF Exposure Statement: 50027424 003

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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 [mW/cm ²]	Average Time [min]
General Population / 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 Frequency Range	RF Exp. Evaluation Threshold [W]
2.412 – 2.472GHz	2.7

Measurement Result

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

Radio	Conducted Output Power P _{out} [mW]	Maximum Antenna Gain [dBi]	EIRP Output Power [mW]	Power Density at 20cm [mW/cm ²]
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/cm² is calculated according to the Friis formula: $S = (P_{out} \cdot G) / (4\pi \cdot D^2)$, where
P_{out} = 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.