

RF Exposure Statement

No. : 23KE0041-YK-2

Applicant : NIHON KOHDEN CORPORATION
Type of Equipment: Access Point
Model No. : ZR-101AA
FCC ID : B6BZR-101AA

RF Exposure Statement:

NIHON KOHDEN CORPORATION. declares that Model : ZR-101AA complies with FCC radiation exposure requirement specified in FCC Rules 2.1093(2).

ZR-101AA has 49.43mW of conducted Peak output power and 80.91mW of EIRP.(Antenna gain : 2.14dBi)

This kind of equipment hardly ever go over SAR value limited of 1.6W/Kg for public resident which is regulated by "OET Bulletin65, Supplement C".

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the "ZR-101AA" as calculated from FCC OET 65 Appendix B, Table (B) Limits for General Population / Uncontrolled Exposure.

This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0m W/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2) \quad \text{or} \quad r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where S = 1.0 mW/cm² for 2400 MHz
 P = 49.4 mW (Maximum Conducted Peak Output Power)
 G = 1.6 Numerical Antenna gain
 r = 2.5 Minimum safe distance from antenna (cm)

For: ZR-101AA r = 2.5 cm

Notes in Installation Manual:

CAUTION

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator and body (excluding extremities: hands, wrists and feet) and must not be co-located or operated with any antenna or transmitter.