

RF Exposure / MPE Calculation

No. : 29CE0086-HO-01

Applicant	:	Sony Corporation
Type of Equipment	:	Wireless transceiver
Model No.	:	EZW-RT10A
FCC ID	:	AK8A1663610A
IC Number	:	409B-A1663610A

Sony Corporation declares that Model : EZW-RT10A
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

The “EZW-RT10A“ has 29.11 mW of conducted Peak Output power and 47.21 mW of EIRP.
This kind of equipment is below 60/frequency[GHz] mW(TCB Exclusion List)
so that SAR testing is excluded. The Following calculation is the reference data for 20cm distance.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “EZW-RT10A“ as calculated from FCC OET Bulletin 65 Appendix A, 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 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

P =	29.11 mW (Maximum peak output power)	
G =	1.62 Numerical Antenna gain; equal to	2.10 dBi
r =	20.0 cm	

For: EZW-RT10A

$$S = 0.00939 \text{ mW/cm}^2$$

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