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Maximum Permissive Exposure

FCC ID: Y9E-IAD-18010A
Product Name: Room Booking Panel
M/N: IAD-18010A

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	---	---	f/300	6
1500-100,000	---	---	5.0	6
(B) Limits for General Population / Uncontrolled Exposures (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	---	---	f/1500	30
1500-100,000	---	---	1.0	30

2. MPE Calculation

We declare that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations: $S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Note: $\pi=3.1416$ in this report.



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2.1. Estimation Result

EUT: Room Booking Panel		
M/N: IAD-18010A		
Test date:2025-06-12	Pressure: 101.8 ± 1.0 kpa	Humidity: $52.1 \pm 3.0\%$
Tested by: Carl	Test site: RF site	Temperature: 21.6 ± 0.6 °C

WiFi 2.4G

Test Mode	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	11.49	14.09	2.3	1.70	0.0048
11g	12.13	16.33	2.3	1.70	0.0055
11n HT20	12.70	18.62	2.3	1.70	0.0063
Conclusion:Pass					

WiFi 5G Band1

Test Mode	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	10.37	10.89	3.5	2.24	0.0049
11n20	10.00	10.00	3.5	2.24	0.0045
11n40	8.74	7.48	3.5	2.24	0.0033
11ac20	9.99	9.98	3.5	2.24	0.0044
11ac40	8.75	7.50	3.5	2.24	0.0033
11ac80	7.92	6.19	3.5	2.24	0.0028
Conclusion:Pass					

WiFi 5G Band3

Test Mode	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	9.46	8.83	5.1	3.24	0.0057
11n20	8.94	7.83	5.1	3.24	0.0050
11n40	9.01	7.96	5.1	3.24	0.0051
11ac20	8.94	7.83	5.1	3.24	0.0050
11ac40	9.02	7.98	5.1	3.24	0.0051
11ac80	8.34	6.82	5.1	3.24	0.0044
Conclusion:Pass					