

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	RouterBOARD cAP Gi-5acD2nD
Model Name	cAP ac
FCC ID	TV7CPGI5ACD2ND

2. EVALUATION METHOD AND LIMIT

Human exposure to RF emissions from mobile devices (47 CFR §1.1310) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency	E-field Strength	Magnetic Field	Power Density	Averaging Time
Range	(E)	Strength (H)	(S)	$ E ^2$, $ H ^2$ or S
(MHz)	(V/m)	(A/m)	(mW/cm ²)	(Minutes)
0.3 1.34	614	1.65	(100)*	30
1.34 30	824/f	2.21/f	(180/f ²)*	30
30 300	27.5	0.074	0.2	30
300 1500	~GO "	<u> </u>	f/1500	30
1500 100,000		极测	1.0	30

^{*}Note:

- 1. f= Frequency in MHz * Plane-wave Equivalent Power Density
- 2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and §1.1310 on source-based time-averaging requirement for mobile and portable transmitters.

S=PG/4πR²

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

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A minimum test separation distance \geq 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 1.1310. In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

For 2.4G WIFI Antenna 0/1 Gain=2dBi (Numeric 1.58), π=3.14

For 5G WIFI Antenna 0/1 Gain=2.5dBi (Numeric 1.78), π=3.14

Frequency (GHz)	TEST MODE	Average Conducted Power Total (mW)	Power Density (mW/cm²)	Power Density Limit (mW/cm²)
2.437	11n20mimo	35.73	0.0113	Tuttestation o
5.785	11ac20mimo	32.73	0.0116	1

Note:

- 1. Only the worst case recorded.
- 2. The WIFI 2.4G and 5G can transmit simultaneously. S=0.0113/1.0+0.0116/1.0=0.0229<1.

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