AnyDATA Corporation FCC ID: P4M-ACT210

6 FCC §1.1307(b)(1) & §2.1091 – RF Exposure Information

6.1 Applicable Standard

According to FCC §2.1091, §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	$*(180/f^2)$	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

6.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

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

^{* =} Plane-wave equivalent power density

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6.3 MPE Results

Cellular Band

Maximum peak output power at antenna input terminal (dBm): 24.51 Maximum peak output power at antenna input terminal (mW): 282.49 Prediction distance (cm): <u>20</u> Prediction frequency (MHz): 824.7 Maximum Antenna Gain, typical (dBi): -3.0 Maximum Antenna Gain (numeric): 0.5 Power density of prediction frequency at 20 cm (mW/cm²): 0.0281 MPE limit for uncontrolled exposure at prediction frequency (mW/cm²): 0.5498

PCS Band

Maximum peak output power at antenna input terminal (dBm): 25.27 Maximum peak output power at antenna input terminal (mW): 336.51 Prediction distance (cm): <u>20</u> Prediction frequency (MHz): 1851.25 Maximum Antenna Gain, typical (dBi): <u>-3.0</u> Maximum Antenna Gain (numeric): 0.5 Power density of prediction frequency at 20 cm (mW/cm²): 0.0335 MPE limit for uncontrolled exposure at prediction frequency (mW/cm²): 1.0

The device is compliant with the requirement MPE limit for uncontrolled exposure.