Actestation of Global Compliance

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	ac1x1+BT module	SCO	SC SC	
Model Name	CM-8821CU			
FCC ID	PANCM8821CU	The of Constance	The second Company	CO Mertin

2. EVALUATION METHOD AND LIMIT

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) 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.

Power Density Averaging Time Frequency E-field Strength Magnetic Field $|E|^{2}$, $|H|^{2}$ or S Range (E) Strength (H) (S) (V/m)(A/m) (mW/cm^2) (Minutes) (MHz) 0.3 -- 1.34 614 1.63 $(100)^*$ 30 $(180/f^2)^*$ 1.34 -- 30 824/f 2.19/f 30 30 -- 300 27.5 0.073 0.2 30 300 -- 1500 ____ f/1500 30 1500 -- 100,000 1.0 30 --

LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

*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 2.1093 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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3. CALCULATION

A minimum test separation distance ≥ 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 § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

WIFI PART(Can not transmit at different band simultaneously)

Antenna Gain=3.16dBi (Numeric 2.07), π=3.14

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Frequency	Output Power	Output Power	Power Density	Power Density Limit
MHz	dBm	mW	mW/cm ²	mW/cm ²
2462	19.77	94.84	0.039	1

802.11b Single mode(Worst case)

Antenna Gain=6.78dBi (Numeric 4.76), π=3.14

802.11a Single mode(Worst case)

Frequency	Output Power	Output Power	Power Density	Power Density Limit
MHz	dBm	mW	mW/cm ²	mW/cm ²
5825	17.54	56.75	0.054	1

BT PART(EDR)

Antenna Gain=3.16dBi (Numeric 2.07), π=3.14

Frequency	Output Power	Output Power	Power Density	Power Density Limit
MHz	dBm	mW	mW/cm ²	mW/cm ²
2412	7.283	5.35	0.0022	1

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BT PART(BLE)

Antenna Gain=3.16dBi (Numeric 2.07), π=3.14

	Frequency	Output Power	Output Power	Power Density	Power Density Limit
11	MHz	dBm	mW	mW/cm ²	mW/cm ²
ā.	2480	10.577	11.42	0.0047	1

Note:

1. Only the worst case recorded.

2. The WIFI and BT can not transmit simultaneously.

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