

Certification Exhibit

FCC ID: S4MGRG3-18-B

FCC Rule Part: 15.247

ACS Report Number: 09-0230-15C

Manufacturer: TeraHop Networks, Inc.
Model(s): GR2100a

RF Exposure

General Information:

Applicant: TeraHop Networks, Inc.
 ACS Project: 09-0230
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: PCB
 Antenna Gain: 1.8 dBi
 Maximum Transmitter Conducted Power: 12.74 dBm, 18.79mW
 Maximum System EIRP: 14.54 dBm, 28.44 mW
 Exposure Conditions: Greater than 20 centimeters

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
2450	12.74	1.00	18.79	1.8	1.514	20	0.006

Installation Guidelines

The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

RF Exposure

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

Conclusion

This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.