2.4 GHz WLAN MiniPCI Card

Class II Permissive Change

FCC ID: M4Y-XG-600

ACS Report Number: 04-0236-15C

Manufacturer: Z-Com, Inc.
Model: XG-601

RF Exposure Information

General Information:

Applicant: Z-Com, Inc.
ACS Project: 04-0236
FCC ID: M4Y-XG-600
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Film
Antenna Gain: 2.04dB
Transmitter Conducted Power: 17.46dBm
Maximum System EIRP: 19.5 dBm
Exposure Conditions: 20 centimeters

MPE Calculation

The minimum separation distance is calculated as follows:

$$E(V/m) = \frac{\sqrt{30xPxG}}{d} \qquad \text{Power Density: } P_d = (mW/cm^2) = \frac{E^2}{3770}$$

MPE Distance

MPE Calculator for Mobile Equipment Limits for General Population/Uncontrolled Exposure*					
Transmit Freq. (MHz)	**Radio Power (dBm)**	**Radio Power (W)**	**Antenna Gain (dBi)**	**Antenna Gain (mW eq.)**	**MPE Distance (cm)**
2412	17.46	0.05572	2.04	1.60	2.6631

Installation Guidelines
The installation manual contains text advising how to install the equipment to maintain compliance with the FCC RF exposure requirements such that a minimum separation distance of 20 cm is maintained between the radiator and the body.

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