

# FCC Part 15.247 Certification Test Report

FCC ID: R7PER3R1S4

FCC Rule Part: 15.247

ACS Report Number: 06-0388-15C

Manufacturer: Cellnet Technology, Inc. Model: GE I-210 Utilinet Endpoint

**RF Exposure Information** 

## **General Information:**

Applicant: Cellnet
ACS Project: 06-0388
FCC ID: R7PER3R1S4

Device Category: Mobile

Environment: General Population/Uncontrolled Exposure

# **Technical Information:**

Antenna Type: Integrated Loop

Antenna Gain: 3dBi

Transmitter Conducted Power: 16.87dBm Maximum System EIRP: 19.87dBm Operating Configuration: Fixed mounted

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	Radio	Power	Radio	Antenna	Antenna	Dietonee	Bower Density
Frequency	Power	Density Limit	Power	Gain	Gain (mW	(cm)	Power Density (mW/cm^2)
(MHz)	(dBm)	(mW/Cm2)	(mW)	(dBi)	eq.)	(CIII)	(IIIVV/CIII^2)
902.1	16.87	0.60	48.64	3	1.995	20	0.019

#### **Installation Guidelines**

The installation manual contains the following text 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.