

FCC Part 15 Subpart C Transmitter Certification

Composite Device

Test Report

FCC ID: R7P26-1129-01

FCC Rule Part: 15.247

**ACS Report Number(s):
05-0384-15C-DSS
05-0384-15C-DTS**

Manufacturer: Cellnet Technology, Inc.
Trade Name: InfiNet Concentrator
Model: 26-1129

RF Exposure Information

General Information:

Applicant: Cellnet
 ACS Project: 05-0384
 FCC ID: R7P26-1129-01
 Device Category: Fixed
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Whip
 Antenna Gain: 5 dBi
 Maximum Transmitter Conducted Power: 26.47dBm
 Maximum System EIRP: 31.47dBm
 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 Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
917.58	26.47	0.61	443.61	5	3.162	20	0.279

Note: This composite device contains two (2) transmitting devices which do not operate simultaneously. The maximum permissible exposure is calculated based on the transmitting device with the highest output power.

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 (Intentional Radiators Only)

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20cm is maintained from the general population.”

Conclusion

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