

September 20, 2005

Federal Communications Commission Equipment Approval Services P.O. Box 358315 Pittsburgh, PA 15251-5315

Dear Sir or Madam:

The following is the SAR calculation for the Digivance® Software Defined Radio System's Remote Unit using the system's maximum RF emission. The calculation is based on FCC 47CFR Part 2 and OET 65.

Per OET 65:

Maximum Permissible Exposure is Freq. (MHz)/1500 = MPE mW/cm^2 1930 $MHz/1500 = 1.287 mW/cm^2$

The following equations determine the distance from the antenna that the power density is ≤ 1.287 mW/cm².

+46.50dBm Transmitter Power (Max)

13.50dBi Antenna Gain (Max)

46.50dBm + 13.50dBi= +60dBm EIRP

+60dBm EIRP = 1000 Watts EIRP

1000 Watts EIRP = 1000*103 mWatts EIRP

1.287 mW/cm² = $1000*10^3$ mW/($4*\pi*r^2$)

 $r = SQR(1000*10^3/4*\pi 1.287)$

r= 248.66 cm or 2.48 Meters

In addition, the following statement will be added to our installation/operation manual:

To comply with Maximum Permissible Exposure (MPE) requirements, the maximum composite output from the antenna cannot exceed 1000 Watts EIRP and the antenna must be permanently installed in a fixed location that provides at least 6 meters (20 feet) of separation from all persons.

Sincerely,

Dave Conyers

Vice President of Engineering

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Tele: 952 403-8424 Fax: 952 403-8858

Mailing Address: P.O. Box 1101, Minneapolis, Minnesota 55440-1101 World Headquarters: Minneapolis, Minnesota USA +1.952.938.8080 www.adc.com