

November 9, 2012

Attn: Director of Certification

Dear Sir or Madam:

The following is the SAR calculation for the FlexWave[™] Prism – HDM 850/1900, 1900 Band, 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 1.0 mW/cm² over 30 minutes. 1500 MHz - 100,000 MHz

The following equations determine the distance from the antenna that the power density is $\leq 1.0 \text{ mW/cm}^2$.

To convert to EIRP use the relation: EIRP = ERP X 1.64

+44.05 dBm Transmitter Power (Max) 15.95 dBi Antenna Gain (Max) 44.05 dBm + 15.95 dBi= +60 dBm EIRP +60 dBm ERP = 1640 Watts EIRP 1640 Watts EIRP = 1640*10³ mWatts EIRP 1.0 mW/cm² = 1640*10³ mW/(4* π *r²) r= SQR(1640*10³/4* π 1.0) r= 361.35 cm or 3.61 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 1640 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,

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