Streetline Inc. . FCC ID: V2ISL-SPS

## 4 FCC §15.247 (i) & §2.1091 - RF Exposure

## 4.1 Applicable Standard

According to FCC §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	* (100)	30
1.34-30	824/f	2.19/f	* (180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

## 4.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

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

## 4.3 MPE Results

Maximum peak output power at antenna input terminal (dBm): 16.79 Maximum peak output power at antenna input terminal (mW): 47.75 Prediction distance (cm): 20 Prediction frequency (MHz): 2440 Maximum Antenna Gain, typical (dBi): 0 Maximum Antenna Gain (numeric): 1.0 Power density of prediction frequency at 20.0 cm (mW/cm<sup>2</sup>): 0.0095 MPE limit for uncontrolled exposure at prediction frequency (mW/cm<sup>2</sup>): 1.0

The device is compliant with the requirement MPE limit for uncontrolled exposure.

<sup>\* =</sup> Plane-wave equivalent power density