

## MPE CALCULATION

**For Global411 Internet Services, LLC;**

**Model: MSW41p4**

**FCC ID: YZAQA-ZBQI-W0NKP4**

RF Exposure Requirements: 47CFR§1.1307(b)  
RF Radiation Exposure Limits: 47CFR§1.1310  
RF Radiation Exposure Guidelines: 47CFR§2.1091  
EUT Frequency Band: 2412 – 2462MHz  
Limits for General Population/Uncontrolled Exposure in the band of: 1500 – 100000MHz  
Power Density Limit: 1.0mW/cm<sup>2</sup>;

Equation:  $S = PG/4\pi R^2$   
Where, S=Power Density  
P=Power Input to Antenna  
G=Antenna Gain  
R=distance to the center of radiated antenna

		Channel	Channel Frequency (MHz)	Conducted Power (mW)	Antenna Gain (dBi)	Power density at 20cm (mW/cm <sup>2</sup> )	Power density Limits (mW/cm <sup>2</sup> )
2412 to 2462 MHz	802.11b	Low	2412	21.88	2	0.006878	1
		Mid	2437	28.18	2	0.008858	1
		High	2462	33.88	2	0.010650	1
	802.11g	Low	2412	40.74	2	0.012806	1
		Mid	2437	48.98	2	0.015396	1
		High	2462	57.54	2	0.018087	1

### Result

The above result had shown that device complied with 1.0mW/cm<sup>2</sup> Power density requirement for distance of 20 cm.

Completed By: Peter Cai

Data: 8 April, 2011