



360 Herndon Parkway
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APPENDIX A: FCC PART 1.1307, 1.1310, 2.1091, 2.1093: RF EXPOSURES COMPLIANCE (RSS-133 §8)

General Information:

FCCID: O6YUTS-800FSU
Environment: General Population/Uncontrolled Exposure
Device category: Mobile under Part 2.1091

Antenna Types: :

Antenna	Type	Gain (dBi)
1.9G-PA019	Directional	10

Operating Conditions:

The main unit is installed indoor on a stable surface such as a desk or wall.
The antenna must be installed and located outdoor on a roof top site, pole, or building structure away from users and bystanders. A minimum separation distance of 20 cm is normally maintained between all users, bystanders and the antenna (including any radiating structure) during normal operation of this device.
The device is powered by an AC/DC adapter

Test signal, time-averaging, max. measured output:

Mode: TDMA

Frequency Range	Output Power (W)	Freq. Tolerance	Emission Designator
1895.15-1909.95 MHz	0.069 EIRP	5 ppm	290KDXW

MPE Calculation:

The maximum distance, from the antenna at which MPE is met or exceeded, is calculated from the equation relating field strength E in V/m, transmit power P in Watts, transmit antenna numeric gain G, and separation distance in meters:

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power density: } P_d(mW/cm^2) = \frac{E^2}{3770}$$

Frequency^A 1895 MHz

The limit for general population/uncontrolled exposure environment above 1500MHz is $1 mW/cm^2$.



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SEPARATION DISTANCE:

Separation Distance ^A	Antenna Gain (dBi)	
	10	
Power ^B (Watt)	(in)	(cm)
0.168	1.4	3.6

Notes:

^A = Distances are calculated for the largest (worst-case) separation distance

^B = Measured output power EIRP

CONCLUSION:

The device complies with the MPE requirements by providing a safe separation distance between the antenna (including any radiating structure) and any persons.