

# MPE CALCULATION

TrueLink 12LB FCC ID: XGS-RL76052

BT FCC ID: XGS-UNNB30

Cellular FCC ID: XPY1EHM44NN

RF Exposure Requirements:  
RF Radiation Exposure Limits:  
RF Radiation Exposure Guidelines:

47 CFR §1.1307(b)  
47 CFR §1.1310  
FCC OST/OET Bulletin Number 65

Limits for General Population/Uncontrolled Exposure in the band of:

300 – 1500 MHz

Power Density Limit:

f/1500 mW / cm<sup>2</sup>

Limits for General Population/Uncontrolled Exposure in the band of:

1500 – 100,000 MHz

Power Density Limit:

1 mW / cm<sup>2</sup>

Equation:  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

EUT: ORBCOMM Inc.

Model No.: TripLINK 12LB

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Pass/Fail
Lora	914.2	13.72	0.5	±1dB	14.72	30	0.003	0.60	Pass
GSM	848.8	32.78	3.3	±1dB	33.78	30	0.45	0.56	Pass
BT	2402	7.9	3.0	±1dB	8.9	30	0.001	1	Pass

**Total = 0.003/0.6 + 0.45/0.56 + 0.001/1 = 0.809 < 1**

The Above Result had shown that the Device complied with MPE requirement.



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