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Client: OSLINK Sp. z o.o.
Model: OSBRIDGE 5GXi
FCC ID: UEV-5GXI
Standard: FCC 15.247
Report #: 2007118

Appendix A: RF Exposure FCC Part 1.1307, 1.1310, 2.1091, 2.1093

From FCC 1.1310 Table 1A, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm^2. The electric field generated for a 1 mW/cm^2 exposure (S) is calculated as follows:

$$S = (P \times G)/(4 \times \pi \times d^2)$$

where:

S = Power density
P = Transmitter conducted power in milliwatts
G = Numeric gain
d = distance to radiation center

Fundamental Operating Frequency: 5725 – 5850 MHz
Measured Maximum Output Power: 0.085 Watts (85 mW)
Antenna Gain = 23 dBi; Numeric Gain = 199.5

S = (85 x 199.5)/(4 x Pi x 36.73^2) = 1 mW/cm^2

Calculated Power Density

Antenna Gain = 23 dBi Conducted Power (milli-Watt) = 0.085	
Separation Distance = 36.73 cm	
FCC Power Density Limit	Calculated Power Density at 36.73 cm Distance
1 mW/cm^2	1 mW/cm^2