



Certification Exhibit

FCC ID: R7PNG0R1S4LP

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72172744

Manufacturer: Landis + Gyr Technology, Inc
Model: T1651 Series-6 Mesh IP & T1661 Series-6 WiSUN

RF Exposure

General Information:

Applicant: Landis + Gyr Technology, Inc
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information (900MHz– FCC 15.247):

Antenna Type: Monopole Chip Antenna
Antenna Gain: 1 dBi
Maximum Transmitter Conducted Power: 29.95dBm, 988.55mW
Maximum System EIRP: 30.95dBm, 1244.51mW
Exposure Conditions: 20 centimeters
*Worst Case from all 900 MHz high power modes (FHSS/Hybrid/DTS)

Technical Information (2.4GHz– FCC 15.247):

Antenna Type: Monopole Chip Antenna
Antenna Gain: 1 dBi
Maximum Transmitter Conducted Power: 24.99dBm, 315.50mW
Maximum System EIRP: 25.99dBm, 397.19mW
Exposure Conditions: 20 centimeters

Technical Information (900 MHz – FCC 15.249):

Antenna Type: Monopole Chip Antenna
Antenna Gain: 1 dBi
Maximum System EIRP: -2.23dBm, 0.60mW
Exposure Conditions: 20 centimeters

*EIRP calculated from field strength using $EIRP (dBm) = E (dBuV/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

Table 1: MPE Calculation (900 MHz & 2.4 GHz – FCC 15.247)

Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/cm ²)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm ²)
902.2	29.95	0.60	988.55	1.0	1.259	20	0.248
2410.8	24.99	1.00	315.50	1.0	1.259	20	0.079

Table 2: MPE Calculation (900 MHz – FCC 15.249)

Transmit Frequency (MHz)	Radio Power EIRP (dBm)	Power Density Limit (mW/cm ²)	Radio Power EIRP (mW)	Distance (cm)	Power Density (mW/cm ²)
927.6	-2.23	0.62	0.60	20	0.0001