TÜVRheinland®
Precisely Right.

Timelox Router FCC ID: WYV-RT067

Maximum Permissible Exposure Calculations

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

where: S = power density
P = power input to the antenna
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

Maximum peak output power at antenna input terminal:	18.80	(dBm)
Maximum peak output power at antenna input terminal:	75.8577575	(mW)
Antenna gain(typical):	3.5	(dBi)
Maximum antenna gain:	2.238721139	(numeric)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	2450	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.033785	(mW/cm^2)
Margin of compliance:	-14.7	(dB)

This equates to 0.33785484 W/m^2