

Section 15.247(i) – Radio Frequency Hazard Information

As per Section 15.247 (i) spread spectrum transmitters operating in the 2400.0 – 2483.5 MHz band are required to be operated in a manner that ensures that the public is not exposed to RF Energy levels in accordance with FCC KDB 447498 D01 v07 and CFR 47 Section 2.1091

The DMO1 module has been assessed as a Mobile device as per Appendix B – Exemptions for Single RF Sources.

In accordance with B3 an MPE based exemption has been determined.

When the DMO1 module is used it will possible to maintain a 20 cm separation distance between the product and user and / or bystander.

The device operates in the 2400 – 2483.5 MHz band.

The conducted power of this device has been measured to be +7.0 dBm or 5.0 mW

A half dipole antenna with a maximum gain of +4 dBi (2.51) would typically be attached to this module.

In accordance with Formula (B.1) the threshold power P_{th} (mW) will equal the ERP_{20cm} (mW) which is stated to be 3060 mW for frequencies between 1.5 GHz and 6.0 GHz.

The EIRP of the DMO1 Module has calculated to be +7 dBm + 4 dBi = +11 dBm EIRP.

This gives an EIRP radiated power of 12.6 mW

The device will not exceed the threshold power.

An MPE based exemption can therefore be applied provided a safe distance of 20 cm is specified in the user manual for this device

Result: Complies