

## Additional User Manual Statement - EM Field exposure

### iRU4438 RF Exposure

FCC Maximum Permissible Exposure (MPE) limits for equipment operating in the frequency range 1500 – 100,000 MHz is 1.0 mW/cm<sup>2</sup>.

Following installation and commissioning, the safe distance from the antenna is the greater of:

**20cm**

**Or**

**r cm, where  $r = \sqrt{(PG/4\pi S)}$**

P: power input to antenna(s) in mW

G: numeric gain of antenna relative to isotropic radiator

S: power density in mW/cm<sup>2</sup> = 1 mW/cm<sup>2</sup>

The device has four antenna ports, so safe distance from the antenna shall be the greater of:

**20 cm or  $\sqrt{(4*PG/4\pi S)}$**

Which gives

**20 cm or  $\sqrt{(0.32*P*G)}$  cm.**

The iRU4438 is designed to be used with one of three standard antennas combinations:

- Four 2 dBi omni-directional antennas
- Two 9 dBi 2-port cross-polarised directional panel antennas
- Two 18 dBi 2-port cross-polarised directional panel antennas

These give the following safe distances from the unit:

Antenna gain	Safe distance (cm)
2 dBi	22.4
9 dBi	50.2
18 dBi	141.4