

## Additional Airsynergy User Manual Statements

**Airsynergy basestation, FCC ID: O2J-495AS, operating in the 4940-4990 MHz band.**

### **Federal Communications Rules for operation in USA**

The correct setting of the following Base Station parameters in Netspan, are critical to the correct operation of equipment in compliance with the rules detailed in 47CFR90subpart Y:

- Transmit Power
- Transmit Frequency
- Channel Bandwidth

Any attempt to alter these parameters outside those permitted by the Netspan software or the operator license could be a violation of that license

### **Transmit Power / Tune-up**

Transmit power is set using the Netspan management software during install /commissioning.

The unit may be set to transmit with a power of up to 27dBm at each antenna port when connected to cross polarised antenna with maximum gain of 18dBi.

### **FCC and Industry Canada RF Exposure Requirements**

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 two antenna ports, so safe distance from the antenna shall be the greater of:

**20 cm or  $\sqrt{(2*PG/4\pi S)}$**

Which gives

**20 cm or  $\sqrt{(0.16*P*G)}$  cm.**