

Additional Airsynergy User Manual Statements

Airsynergy basestation, FCC ID: O2J-255AS, operating on frequencies 2503-2569 MHz (5 MHz channels) or 2506-2566 MHz (10 MHz channels)

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 47CFR27:

- 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 30 dBm 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/cm².

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/cm² = 1 mW/cm²

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.