

**Appendix A - Input/output power and amplifier/booster gain**
**Test Data:**
**Downlink 406.1-420MHz**

Mode	Operation Band	Frequency F <sub>0</sub> (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	406.1 ~ 420MHz	416.0100	CW	Pre-AGC	-50	24.26	0.16	74.26
				3dB Above AGC	-47	25.01	0.19	/

**Remark:**

- 1) The normal power is 24dBm and the measured output power which show in above table is within  $\pm 1.0$ dB tolerance.
- 2) The ERP limit is 5W, the product satisfied with the limit.
- 3) ERP (dBm) = Total Output Power (dBm) + Antenna Gain (dBi) - 2.15 dB. Antenna Gain is 0.0dBi.

**Downlink 421-430MHz**

Mode	Operation Band	Frequency F <sub>0</sub> (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	421 ~ 430MHz	426.9885	CW	Pre-AGC	-50	24.87	0.19	74.87
				3dB Above AGC	-47	25.08	0.20	/

**Remark:**

- 4) The normal power is 24dBm and the measured output power which show in above table is within  $\pm 1.0$ dB tolerance.
- 5) The ERP limit is 5W, the product satisfied with the limit.
- 6) ERP (dBm) = Total Output Power (dBm) + Antenna Gain (dBi) - 2.15 dB. Antenna Gain is 0.0dBi.

**Downlink 450-470MHz**

Mode	Operation Band	Frequency F <sub>0</sub> (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	450 ~ 470MHz	460.0000	CW	Pre-AGC	-50	24.35	0.17	74.35
				3dB Above AGC	-47	24.92	0.19	/

**Remark:**

- 7) The normal power is 24dBm and the measured output power which show in above table is within  $\pm 1.0$ dB tolerance.
- 8) The ERP limit is 5W, the product satisfied with the limit.
- 9) ERP (dBm) = Total Output Power (dBm) + Antenna Gain (dBi) - 2.15 dB. Antenna Gain is 0.0dBi.



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**Downlink 470-512MHz**

Mode	Operation Band	Frequency F <sub>0</sub> (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	470 ~ 512MHz	472.9900	CW	Pre-AGC	-50	24.89	0.19	74.89
				3dB Above AGC	-47	25.10	0.20	/
		506.0900		Pre-AGC	-50	24.92	0.19	74.92
				3dB Above AGC	-47	25.15	0.20	/

**Remark:**

- 10) The normal power is 24dBm and the measured output power which show in above table is within  $\pm 1.0$ dB tolerance.
- 11) The ERP limit is 5W, the product satisfied with the limit.
- 12) ERP (dBm) = Total Output Power (dBm) + Antenna Gain (dBi) - 2.15 dB. Antenna Gain is 0.0dBi.



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