

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

Mode	Operation Band	Frequency F ₀ (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	406.1 ~ 420MHz	415.0160	CW	Pre-AGC	-50	24.84	0.19	74.84
				3dB Above AGC	-47	25.95	0.24	/

Remark:

- 1) The normal power is 24dBm and the measured output power which show in above table is within ± 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.

Uplink 421-430MHz

Mode	Operation Band	Frequency F ₀ (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	421 ~ 430MHz	427.0155	CW	Pre-AGC	-50	24.75	0.18	74.75
				3dB Above AGC	-47	24.97	0.19	/

Remark:

- 4) The normal power is 24dBm and the measured output power which show in above table is within ± 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.

Uplink 450-470MHz

Mode	Operation Band	Frequency F ₀ (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	450 ~ 470MHz	455.1500	CW	Pre-AGC	-50	24.38	0.17	74.38
				3dB Above AGC	-47	25.29	0.21	/

Remark:

- 7) The normal power is 24dBm and the measured output power which show in above table is within ± 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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Uplink 470-512MHz

Mode	Operation Band	Frequency F ₀ (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Output Power (dBm)	ERP (W)	Gain (dB)
Downlink	470 ~ 512MHz	473.8660	CW	Pre-AGC	-50	24.29	0.16	74.29
				3dB Above AGC	-47	25.13	0.20	/
		502.0000		Pre-AGC	-50	24.28	0.16	74.28
				3dB Above AGC	-47	25.33	0.21	/

Remark:

- 10) The normal power is 24dBm and the measured output power which show in above table is within ± 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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