

Appendix A - Input/output power and amplifier/booster gain

Test Data:

Downlink 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	416.0100	CW	Pre-AGC	-50	24.26	0.27	74.26
				3dB Above AGC	-47	25.01	0.32	/

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.

Downlink 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	426.9885	CW	Pre-AGC	-50	24.87	0.31	74.87
				3dB Above AGC	-47	25.08	0.32	/

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.

Downlink 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	460.0000	CW	Pre-AGC	-50	24.35	0.27	74.35
				3dB Above AGC	-47	24.92	0.31	/

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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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300

中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgs.com.cn

t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

Downlink 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	472.9900	CW	Pre-AGC	-50	24.89	0.31	74.89
				3dB Above AGC	-47	25.10	0.32	/
		506.0900		Pre-AGC	-50	24.92	0.31	74.92
				3dB Above AGC	-47	25.15	0.33	/

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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中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn

t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com