

Antenna Specification

Product Name: 4G antenna
Model Number: K011
Manufacturer Information
Company Name: Guangzhou Xaircraft
Technology CO.,LTD
Address: Block C, No.115, Gaopu Road,
Tianhe District,
GuangzhouCity, Guangdong, P.R.China

number	Update content	version	date
1	first	V1.0	2023-09-05
2	Cable length change	V1.1	2023-09-22
3	Cable length change	V1.2	2023-12-25
4	Increase gain/efficiency/frequency band	V1.3	2024-07-08
5			

Drone 4G antenna

Product introduction

K011 is a 4G antenna, widely used in the 4G module frequency band module circuit board, stable performance, small space, simple and convenient assembly, cost-effective.

Technical parameter

Passive antenna characteristics		Structural & Environmental adaptability	
frequency	700-780/820-960MHz 1710-2690MHz	Joint form	FAKRA A Female head
impedance	50 ohm	Antenna weight	≤10g
Output standing wave	700-7.80≤3.5 824-960≤3.5 1710-2690≤2.5	antenna size	50*30*0.55mm
Horizontal coverage	0° ~360°	Operating temperature	-40℃~+85℃
Max Gain	≥0dBi	Storage temperature	-55℃~+85℃
		Storage humidity	95% noncondensing

4G antenna, gain, efficiency

frequency (MHz)	700	720	760	780	820	840	860	880	900	920	940	960
gain (dBi)	2.23	2.65	2.89	3.01	4.01	3.26	3.64	4.13	3.47	3.31	2.63	2.73
efficiency (%)	45.33	46.39	47.88	56.20	76.20	65.36	60.98	64.64	65.00	60.95	55.62	48.53

frequency (MHz)	1700	1775	1850	1925	2000	2075	2150	2225	2300	2375	2450	2525	2600	2690
gain (dBi)	2.49	1.08	1.55	3.94	3.87	3.42	4.30	4.09	3.50	3.27	2.75	2.98	3.20	3.44
efficiency (%)	44.54	48.15	48.98	67.95	66.42	77.66	67.32	65.62	69.06	74.59	62.64	56.51	59.82	63.40

antenna size ($\pm 0.3\text{mm}$)

