

Xingmai GTX2Antenna Specifications

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Project phase		TEL	13797995807

time	Report Version	Main content		
2024/05/13	V0.1	Initial Commissioning Report		
2024/06/01	V0.2	Antenna Optimization Report		
	V0.3	Trial production prototype optimization report		
	V0.4	Replace screen antenna optimization report		

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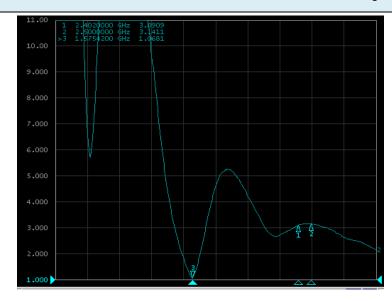
GTX2 Antenna Specifications

Antenna debugging results:

Main contents of the repor

1. Arm GPS antenna efficiency debugging is about 7%,
2. Arm BT antenna efficiency debugging is about 6%

GPS/BT Passive Diagram

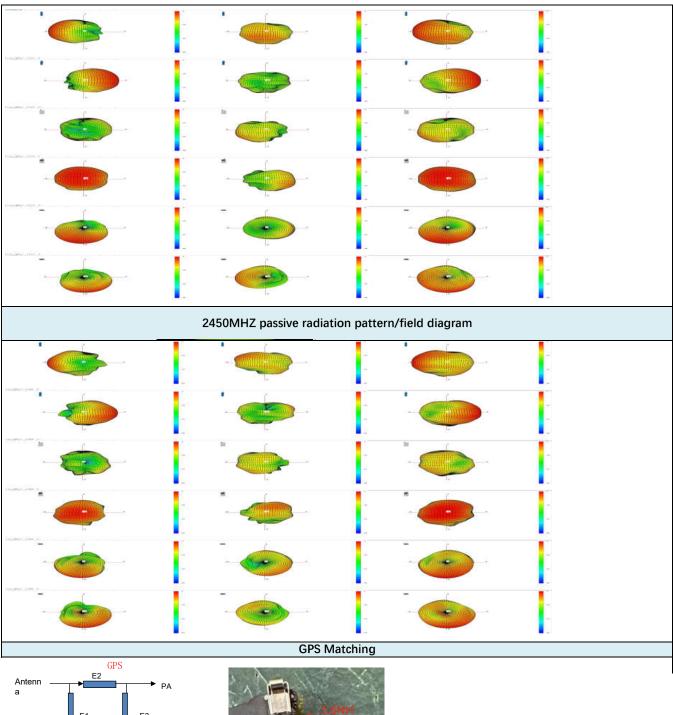


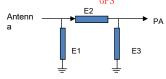


Antenna efficiency parameter test results

	Frequency	efficiency%	efficiencydb	Gain		Frequency	efficiency%	efficiencydb	Gain
	2400	5%	-13.2	-8.1	•	1550	6%	-12.4	-7.6
	2410	5%	-13.0	-7.7		1555	6%	-12.1	-7.3
	2420	5%	-12.8	-7.5		1560	7%	-11.8	-6.8
	2430	6%	-12.4	-7.2	GPS Arm	1565	7%	-11.5	-6.5
BT Arm	2440	6%	-12.2	-7.0		1570	7%	-11.3	-6.2
	2450	6%	-12.0	-6.6		1575	7%	-11.6	-6.3
	2460	6%	-12.4	-6.9		1580	7%	-11.9	-6.6
	2470	6%	-12.5	-7.3		1585	6%	-12.0	-7.2
	2480	5%	-12.8	-7.6		1590	6%	-12.5	-7.5
	2490	5%	-13.1	-7.9					
	2500	5%	-13.3	-8.2					

1575MHZ passive radiation pattern/field diagram



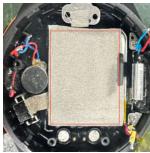


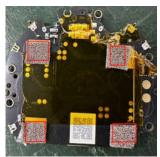
Element	Value
E1(0201)	5.6NH
E2(0201)	2PF
E3(0201)	0.3PF



Environmental treatment















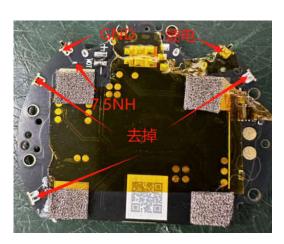
The whole machine environment is processed as shown in the figure.
The battery, speaker, motor, and microphone wires are wound as shown and placed on the inner side of the motherboard.

Screen cable copper foil shielding cover processing

N value test of the whole machine

GPS: 40 38 37 37 35 25 22 21 20 19 (37) (29) BD: 35 35 32 32 31 31 31 30 29 (33) (31)

Special attention



Summarize

- 1. Environmental treatment should be grounded according to the diagram above:
- (1) Conductive cloth shielding battery
- (2) Heart rate small board iron sponge grounding
- (3) Horn magnet and horn iron plate grounding