



# TEST REPORT

Product Name: Yuqilin Industry version  
Trademark: N/A  
Model Number: X8T  
Prepared For: MicroMultiCopter Innovation Technology Co., Ltd.  
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Test Standards: EN IEC 62311:2020  
EN 50665:2017  
Test Results: PASS  
Compiled by: Reviewed by: Approved by:

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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "\*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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(Note: N/A means not applicable)

## 1. VERSION

Report No.	Issue Date	Description	Approved
CTB25072104004RH04	Aug. 15, 2025	Original	Valid
CTB25072104006RH02	Aug. 15, 2025	Modification	Valid
Remark: This report was commissioned by MicroMultiCopter Innovation Technology Co., Ltd. and is based on the same product specification as the original report CTB25072104004RH04. Only the product name has been changed. The test data and conclusions in this report are based on the original report CTB25072104004RH04.			



## 2. PRODUCT INFORMATION AND TEST SETUP

### 2.1 Product Information

Model(s):	X8T
Model Description:	N/A
Wi-Fi Specification:	IEEE 802.11b/g/n
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	WiFi(2.4G): IEEE 802.11b/g/n 20: 2412-2472MHz/ 13 channel IEEE 802.11n 40: 2422-2462MHz/ 9 channel
Max. RF output power:	WiFi (2.4G): 12.4dBm
Type of Modulation:	WiFi (2.4G): DSSS, OFDM
Antenna installation:	WiFi (2.4G): Internal antenna
Antenna Gain:	WiFi (2.4G): Ant1: 2.7dBi Ant2: 2.7dBi
Ratings:	For adapter: Input: 100-240V~50/60Hz 1.5A Output: 5.0V=3.0A /9.0V=3.0A /12.0V=3.0 /15.0V=3.0A /20.0V=2.25A DC 14.4V by battery

### 3. HEALTH REQUIREMENTS

#### 3.1 Limits

According to Council Recommendation: the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz, unperturbed RMS values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m <sup>2</sup> )
0-1 Hz	-	$3.2 \times 10^4$	$4 \times 10^4$	-
1-8 Hz	10000	$3.2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	-
8-25 Hz	10000	$4000 / f$	$5000 / f$	-
0.025-0.8 kHz	$250 / f$	$4 / f$	$5 / f$	-
0.8-3 kHz	$250 / f$	5	6.25	-
3-150 kHz	87	5	6.25	-
0.15-1 MHz	87	$0.73 / f$	$0.92 / f$	-
1-10 MHz	$87 / f^{1/2}$	$0.73 / f$	$0.92 / f$	-
10-400 MHz	28	0.073	0.095	2
400-2000 MHz	$1.375 f^{1/2}$	$0.0037 f^{1/2}$	$0.0046 f^{1/2}$	$f / 200$
2-300 GHz	61	0.16	0.2	10

Note:

1. f as indicated in the frequency range column.
2. For frequencies between 100 kHz and 10 GHz, Seq, E<sup>2</sup>, H<sup>2</sup> and B<sup>2</sup> are to be averaged over any six-minute period.
3. For frequencies exceeding 10 GHz, Seq, E<sup>2</sup>, H<sup>2</sup> and B<sup>2</sup> are to be averaged over any  $68 / f^{1.05}$  minute period (f in GHz).

### 3.2 Exposure Evaluation

From Council Recommendation 1999/519/EC table 2, the maximum power density is 10 W/m<sup>2</sup>.

Power density (S) is calculated by the following formula:

$$S = PG * \text{Duty factor} / 4\pi R^2$$

P = Peak Power Input to antenna (Watts)

G = Antenna Gain (numeric)

R = distance to the center of radiation of antenna (in meter) = 0.2 m

Note:

1)  $P \text{ (Watts)} = (10^{(\text{dBm} / 10)}) / 1000$

2)  $G \text{ (Antenna gain in numeric)} = 10^{(\text{Antenna gain in dBi} / 10)}$

3) Duty factor = 1.0

4)  $\pi = 3.142$

#### 2.4G WIFI

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (W)	Duty factor	Calculated RF Exposure (W/ m <sup>2</sup> )	Limit (W/ m <sup>2</sup> )
2.7	1.86208714	13.49	0.0223357	1	0.0828	10



#### 4. EUT PHOTOGRAPHS

Refer to Report No.: CTB25072104006RE03 for EUT external and internal photos.

**.\*\*\*\*\* END OF REPORT \*\*\*\*\***