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Qingdao Richmat Intelligence Technology Inc

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

MODEL:
HJ8258

REPORT NUMBER:
2503B0475SHA-002

ISSUE DATE:
April 7, 2025

DOCUMENT CONTROL NUMBER:
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Intertek Testing Services (Shanghai FTZ) Co., Ltd
Building No.86, 1198 Qinzhou Road (North)
Caohejing Development Zone
Shanghai 200233, China

Telephone: 86 21 6127 8200
www.intertek.com

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TEST REPORT

Report no.: 2503B0475SHA-002

Applicant:	Qingdao Richmat Intelligence Technology Inc NO.78 Kongquehe 4th Road, Qingdao Clothing Industry park, Jimo, Qingdao, Shandong Province, China.
Manufacturer:	Qingdao Richmat Intelligence Technology Inc NO.78 Kongquehe 4th Road, Qingdao Clothing Industry park, Jimo, Qingdao, Shandong Province, China.
FCC ID:	2AJJGHJ8258

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
KDB447498 D01 General RF Exposure Guidance v06 FCC Part2.1091, FCC Part1.1307(b)

PREPARED BY:	**REVIEWED BY:**
Project Engineer Scout Gong	Reviewer Eric Li

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TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
2503B0475SHA-002	Rev. 01	Initial issue of report	April 7, 2025

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Module
Type/Model:	HJ8258
Description of EUT	The report is C2PC report, the following host model was added. Therefore, host model was tested.
Host models:	Control Box HJC9N-X-X-X-X-X-X-X-X, HJC18N-X-X-X-X-X-X ("X" represents the features supported by the product, and is represented by a number)

Model: HJC9N - X - X - X - X - X - X - X - X

Number of drives

1 Drives	1
2 Drives	2
3 Drives	3
4 Drives	4

Hall control

Not supported	0
Supported	1

Peripheral - Vibratory massager

Not supported	0
1 Vibratory massager	1
2 Vibratory massagers	2

Peripherals - Light & USB

Not supported	0
1*light & 1*USB	1

MOS speed regulation

Not supported	0
Supported	1

Current sampling and overcurrent protection

Not supported	0
Supported	1

Device break detection

Not supported	0
Supported	1

Alarm clock function

Not supported	0
Supported	1

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	Model: HJC18N - X - X - X - X - X - X **Number of drives** 1 Drives 1 2 Drives 2 **Hall control** Not supported 0 Supported 1 **Peripherals - Light /USB** No light & No USB 0 1 light & 1 USB 1 **Current sampling and overcurrent protection** Not supported 0 Supported 1 **Device break detection** Not supportted 0 Supported 1 **Alarm clock function** Not supported 0 Supported 1
Rating:	Module: DC 3.3V
EUT type:	☒ Table top ☐ Floor standing
Software Version:	/
Hardware Version:	/
Sample No.:	A250301-19-001, A250301-19-002
Sample received date:	March 1, 2025
Date of test:	March 1, 2025, to March 31, 2025

1.2 Technical Specification

Frequency Range:	2402-2480MHz
Support Standards:	Bluetooth LE
Type of Modulation:	GFSK
Channel Number:	40
Data Rate:	1Mbps
Channel Separation:	2MHz
Antenna Information:	3dBi, PCB antenna (declared by the manufacturer)

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

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2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density S_{eq} (W/m^2)
0-1 Hz	-	$3,2 \times 10^4$	4×10^4	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	4 000/f	5 000/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	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	f/200
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

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2.2 Assessment Results

Power density (S) is calculated according to the formula:
$S = PG / (4\pi R^2)$
Where S = power density in mW/cm^2
P = Radiated transmit power in mW
G = numeric gain of transmit antenna
R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Mode	Frequency Band	EIRP	R	S	Limits
	(MHz)	dBm	(cm)	(mW/cm^2)	(mW/cm^2)
BLE	2402-2480	5.193	20	0.00066	1

Note: 1 mW/cm2 from 1.310 Table 1.

The MPE assessment value is 0.00066 < 1.0, therefore, the MPE requirement is deemed to be satisfied without test.

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Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.

********** END **********