



RF Exposure Evaluation

For

Jerryken Intelligent Technology(Shanghai) Co., Ltd.

INISERVER CHASSIS

Test Model: BYTE

Prepared for : Jerryken Intelligent Technology(Shanghai) Co., Ltd.
Address : Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road,
BaoshanDistrict, Shanghai

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : March 14, 2025
Number of tested samples : 2
Sample No. : A250212062-1, A250212062-2
Serial number : Prototype
Date of Test : March 14, 2025 ~ March 29, 2025
Date of Report : March 31, 2025





RF Exposure Evaluation	
Report Reference No.	LCSA02135116EB
Date of Issue.....	March 31, 2025
Testing Laboratory Name	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address.....	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure.....	Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name.....	Jerryken Intelligent Technology(Shanghai) Co., Ltd.
Address.....	Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road, Baoshan District, Shanghai
Test Specification	
Standard	FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1091
Test Report Form No.....	TRF-4-E-214 A/0
TRF Originator	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	Dated 2011-03
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EUT Description..... : INISERVER CHASSIS	
Trade Mark.....	Goldshell
Test Model	BYTE
Ratings.....	Input: 20V~7A, 140W For AC Adapter Input: 100-240V~, 50/60Hz, 2.0A Max Adapter Output: 5.0V~3.0A, 15.0W, 9.0V~3.0A, 27.0W, 12.0V~3.0A, 15.0V~3.0A, 45.0W, 20.0V~5.0A, 20.0V~7.0A, 140W
Result	Positive

Compiled by:

Supervised by:

Approved by:

Vera Deng/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

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**FCC -- TEST REPORT**

Test Report No. : LCSA02135116EB	<u>March 31, 2025</u> Date of issue
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EUT.....	: INISERVER CHASSIS
Test Model.....	: BYTE
Applicant.....	: Jerryken Intelligent Technology(Shanghai) Co., Ltd.
Address.....	: Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road, BaoshanDistrict, Shanghai
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Jerryken Intelligent Technology(Shanghai) Co., Ltd.
Address.....	: Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road, BaoshanDistrict, Shanghai
Telephone.....	: /
Fax.....	: /
Factory.....	: Jerryken Intelligent Technology(Shanghai) Co., Ltd.
Address.....	: Room 1287, Zone B, 5th Floor, Building 1, No.668 Shangda Road, BaoshanDistrict, Shanghai
Telephone.....	: /
Fax.....	: /

Test Result:	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	March 31, 2025	Initial Issue	---





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1. Product Information

EUT : INISERVER CHASSIS

Test Model : BYTE

Ratings : Input: 20V $\overline{\sim}$ 7A, 140W
For AC Adapter Input: 100-240V~, 50/60Hz, 2.0A Max
Adapter Output: 5.0V $\overline{\sim}$ 3.0A, 15.0W, 9.0V $\overline{\sim}$ 3.0A, 27.0W, 12.0V $\overline{\sim}$ 3.0A,
15.0V $\overline{\sim}$ 3.0A, 45.0W, 20.0V $\overline{\sim}$ 5.0A, 20.0V $\overline{\sim}$ 7.0A, 140W

Hardware Version : /

Software Version : /

WIFI(2.4G Band) :

Frequency Range : 2412MHz~2462MHz

Channel Number : 11 Channels for 20MHz bandwidth (2412~2462MHz)
7 Channels for 40MHz bandwidth (2422~2452MHz)

Channel Spacing : 5MHz

Modulation Type : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)
IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Antenna Description : Internal Antenna, -1.63dBi(Max.)

Exposure category : General population/uncontrolled environment

EUT Type : Production Unit

Device Type : Mobile Devices

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3. Limit

3.1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f ²)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Uncontrolled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f ²)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method



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Predication of MPE limit at a given distance
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Internal/External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal	Internal Antenna	2400-6000MHz	2.4GWIFI: -1.63dBi	WIFI Antenna

6. Conducted Power

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
IEEE 802.11b	1	2412	15.15
	6	2437	15.14
	11	2462	14.31
IEEE 802.11g	1	2412	14.44
	6	2437	14.24
	11	2462	14.79
IEEE 802.11n HT20	1	2412	13.06
	6	2437	13.04
	11	2462	13.02
IEEE 802.11n HT40	3	2422	12.61
	6	2437	12.19
	9	2452	12.36



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7. Manufacturing Tolerance

[2.4G WIFI]

IEEE 802.11b (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	14.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	13.0	13.0	13.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	12.0	12.0	12.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

8. Measurement Results

8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[2.4G WLAN]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11b	16.0	39.8107	-1.63	0.6871	0.0054	1.0000
IEEE 802.11g	15.0	31.6228	-1.63	0.6871	0.0043	1.0000
IEEE 802.11n HT20	14.0	25.1189	-1.63	0.6871	0.0034	1.0000
IEEE 802.11n HT40	13.0	19.9526	-1.63	0.6871	0.0027	1.0000

Remark:

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

8.2 Simultaneous Transmission MPE Evaluation

The EUT equiped with one antenna. So no need consider simultaneous transmission.

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.





10. Description of Test Facility

NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.

11. Measurement Uncertainty
2.4GWIFI:

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	±0.57dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

-----THE END OF REPORT-----

