TEST REPORT

Product	:	Aikri6490
Trade mark	:	N/A
Model/Type reference	:	Aikri-64X-90AS-8-LGA, Aikri-64X-90LS-8-LGA
Serial Number	:	N/A
Report Number	:	EED32R81711604
Date of Issue	:	Feb. 27, 2026
Product Class	:	Item 19-2 of Article 2 Paragraph 1
Test result	:	PASS

Prepared for:

eInfochips Inc
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Prepared by:

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Check No.: 6534150925

1 Test Summary

Test	Test Requirement	Ordinance regulating radio equipment Limit	Result
Antenna Requirement	item 19-2 of Article 2 Paragraph 1	Ordinance regulating radio equipment Chapter II Section 3	PASS
Test frequency	item 19-2 of Article 2 Paragraph 1	N/A	PASS
Frequency Error	item 19-2 of Article 2 Paragraph 1	±50 PPM or less	PASS
Occupied Bandwidth	item 19-2 of Article 2 Paragraph 1	26MHz or less	PASS
Spread-spectrum Bandwidth	item 19-2 of Article 2 Paragraph 1	500 kHz or more	PASS
Antenna Power	item 19-2 of Article 2 Paragraph 1	10mW/MHz or less Tolerance: +20%,-80%	PASS
Unwanted Emission Strength	item 19-2 of Article 2 Paragraph 1	(1)Below 2458 MHz : 2.5μW (2)2458 to 2471 MHz : 25μW (3)2497 through 2510MHz : 25μW (4)Over 2510 MHz : 2.5μW	PASS
Interference prevention capability	item 19-2 of Article 2 Paragraph 1	Ordinance regulating radio equipment Chapter I Section 5	PASS
Carrier sense capability	item 19-2 of Article 2 Paragraph 1	Notice 88 Appendix 44	N/A
RF accessibility	item 19-2 of Article 2 Paragraph 1	N/A	PASS
Secondary Radiated Emission Strength	item 19-2 of Article 2 Paragraph 1	(1) Below 1 GHz: 4nW (2) 1GHz or higher: 20nW	PASS

Remark:

N/A: It is not applicable to occupied bandwidth within 26MHz.

EUT: In this whole report EUT means Equipment Under Test.

Tx: In this whole report Tx (or tx) means the product in transmitting status.

Rx: In this whole report Rx (or rx) means the product in receiving status.

RF: In this whole report RF means Radiated Frequency.

DS: Direct spreading FH: Frequency hopping

OFDM: Orthogonal frequency division multiplexing

Model No.: Aikri-64X-90AS-8-LGA, Aikri-64X-90LS-8-LGA

Only the model Aikri-64X-90AS-8-LGA was tested, Their electrical circuit design, layout, components used, and internal wiring are identical, Only the software version and model names are different. The mentioned Software versions are for two different Operating System. RF Tx power is same in both the Operating System.

No.	Model name	Software version	Operating System
1	Aikri-64X-90AS-8-LGA	QCS6490_AND.13.0.0.EI.1.3.6	Android
2	Aikri-64X-90LS-8-LGA	QCS6490_QLI.1.2.0.EI.1.1.0	Linux

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3 General Information

3.1 Client Information

Applicant:	eInfochips Inc
Address of Applicant:	181 Metro Drive, Suite 170, San Jose California United States, ZIP Code: 95110
Manufacturer:	eInfochips Inc
Address of Manufacturer:	181 Metro Drive, Suite 170, San Jose California United States, ZIP Code: 95110
Factory:	e Infochips Private Limited
Address of Factory:	Block-E, Ratna, 3rd Eye Voice, IT/ITES SEZ, Calica Construction and Impex Pvt. Ltd., Village: Ognaj, Taluka: Daskroi, Ahmedabad - 380060, Gujarat, India

3.2 General Description of EUT

Product Name:	Aikri6490
Model No.:	Aikri-64X-90AS-8-LGA, Aikri-64X-90LS-8-LGA
Test Model No.:	Aikri-64X-90AS-8-LGA
Trade Mark:	N/A
Operating Frequency:	Wi-Fi: IEEE 802.11b: 2484MHz
Conducted rate power	802.11b(channel 14): 7mW/MHz
Type of Modulation:	802.11b: DSSS(CCK/QPSK/BPSK)
Transmit Data Rate:	802.11b: 1M/2M/5.5M/11M bps
Channel Separation:	5 MHz
Function:	☒ SISO
Antenna Type:	FPC antenna
Antenna gain:	3.35dBi
Test Power Grade:	Default
Test Software of EUT:	QRCT.exe
Power Supply:	DC 3.7V
Sample Received Date:	DC 3.7V
Sample tested Date:	Sep. 15, 2025
Sample tested Date:	Sep. 15, 2025 to Feb. 27, 2026
Note: The product's transmission function only supports a single antenna (Antenna Port 2), while the reception function supports dual antennas.	

3.3 EUT Test Environment Recorded

Temperature:	22°C
Humidity:	53% RH
Atmospheric Pressure:	1010mbar

3.4 Description of Support Units

The EUT has been tested independently.

3.5 Test Location

All tests were performed at:
Centre Testing International Group Co., Ltd.
Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385
No tests were sub-contracted.

3.6 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Frequency Error	10 Hz
2	Occupied Bandwidth	10 kHz
3	Antenna Power	0.55dB
4	Spurious Emissions	0.46dB(30MHz-1GHz)
		0.55dB(1GHz-18GHz)
5	Carrier sense capability	1.0dB
6	Temperature test	0.64°C
7	Humidity test	3.8%
81	DC and low frequency voltages test	0.026%

4 Equipment List

RF test system						
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	Calibration body
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-05-2024 11-25-2025	12-04-2025 11-24-2026	CTIMT
Spectrum Analyzer	R&S	FSVS3044	101509	02-14-2025 02-05-2026	02-13-2026 02-04-2027	LISAI
Spectrum Analyzer	R&S	FSW43	102978	08-11-2025	08-10-2026	LISAI
Signal Generator	Keysight	N5182B	MY53051549	11-30-2024 11-13-2025	11-29-2025 11-12-2026	CTIMT
Signal Generator	Agilent	N5181A	MY46240094	11-30-2024 11-25-2025	11-29-2025 11-24-2026	CTIMT
DC Power	Keysight	E3642A	MY56376072	11-30-2024 11-13-2025	11-29-2025 11-12-2026	CTIMT
Communication test set	R&S	CMW500	169004	03-03-2025	03-02-2026	CTIMT
RF control unit(power unit)	JS Tonscend	JS0806-2	24I80620925	07-21-2025	07-20-2026	CTIMT
Wi-Fi 7GHz Band Extendder	JS Tonscend	TS-WF7U2	2206200002	05-12-2025	05-11-2026	LISAI
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024 11-13-2025	11-29-2025 11-12-2026	CTIMT
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-26-2025	05-25-2026	CTIMT
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.6.21	---	---	---
Digital multimeter	FLUKE	17B MAX	59545050WS	09-19-2024 10-15-2025	09-18-2025 10-14-2026	CTIMT

Remark:

CTI: Centre Testing International Group Co., Ltd
Adress:Build C,Hongwei Industrial Zone, Baoan 70 District, Shenzhen, China
CTIMT: CTI MEASUREMENT AND TESTING CO.,LTD.
Address :Building B and C, Taohuayuan Sci-Tech Innovation Park, Tiegang Community, Xixiang Sub-district, Bao'an District, Shenzhen, Guangdong, China
LISAI: Guangzhou LiSai Metrology & Test Co.,Ltd.
Address:No.8.South Street Shi Ji Institute Guangzhou.Guangdong.China

(a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992) .
(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to(c).

From JRL Article 24-2, paragraph 4, Item 2

Notice: Calibration duration for above equipment is 1 year.

5 Radio Technical Requirements Specification

Table 1: Radio Technical Requirements Specification for 2.4 GHz band low-power data communication system (Item 19-2 of Article 2 Paragraph 1)

Items	Technical standard
Assigned frequency or designated frequency	2471MHz-2497MHz
Communication method	One-way, Simplex, Duplex, Half-Duplex, Broadcast
Tolerance of frequency ($\times 10^{-6}$)	±50PPM
Tolerance of occupied bandwidth	26MHz
Antenna power	10mW/MHz or less Tolerance: +20%,-80%
Antenna gain	2.14dBi or less When an E.R.P. is less than a limit, the shortage shall be compensated for by the gain of the transmitting antenna.
Tolerance of spurious emission intensity	(1) Below 2458 MHz : 2.5μW (2) 2458 to 2471 MHz : 25μW (3) 2497 through 2510MHz : 25μW Over 2510 MHz : 2.5μW
Spreading bandwidth	500kHz or more
Spreading rate of spectrum	For DS system;(Spreading bandwidth) / (Frequency corresponding to transmission rate) ≥ 10
Limit of secondary radiated emissions	(1) Below 1 GHz: 4nW (2) 1 GHz or higher: 20nW
Interference prevention function	Shall have the function of automatic transmission and reception of identification sign.
Structure	Shall be of the structure that the RF and modulator sections excluding antenna cannot easily be opened.
Note	DS: Direct spread FH: Frequency hopping

Note: The Technical Standards described here do not cover all of the regulated items.

5.1 Transmitter Requirements

5.1.1 EUT test voltage and Frequency

EUT test voltage		
Power Supply:	DC 3.7V	
Test voltage require:	Supply the rated voltage and the rated voltage ±10% to power supply. However, If the fluctuation of input voltage to the circuit of RF unit (except power supply) of test equipment is under ±1%, when input voltage from external power supply to the test equipment is fluctuated by ±10%: Conduct the test with the rated voltage only.	
Power Supply result:	The measurement result of the voltage fluctuation at RF circuit when DC 3.7V +/- 10%.	
	DC Input	RF circuit
	3.70V	3.300V
	4.07V	3.300V
	3.33V	3.300V

5.1.1.1 Test frequency

Test frequencies:	If the EUT can be set to 3 of more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L,M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top. 1 near middle and 1 near bottom

EUT channels and frequencies list:

802.11b

Channel	Frequency (MHz)
14	2484

5.1.2 Antenna Requirement

Standard requirement	
Applicable for equipment with an antenna terminal, including testing terminals) If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.	
EUT Antenna	Please see the interior photos
The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is 3.35dBi.	
Result: An antenna connector is available; all relevant tests will be carried out conducted.	

5.1.3 Frequency Error

Test Requirement:	Item 19-2 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.44
EUT Test Status:	Enter the unmodulation mode for the product. Test in Channel lowest, middle and highest, keep in continuously transmitting status.
Test Configuration:	
EUT → **Spectrum Analyzer**	
Test Conditions:	Frequency Counter or Spectrum Analyzer is used for measurement.
EUT conditions:	Modulation/Spread/Hopping off, CW Tx If EUT does not accept “Modulation OFF” mode in the measurement, you may use “Modulation ON” mode. In that case you can use the Max power Frequency as the measuring results.
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 1MHz RBW 10kHz (Modulation ON), VBW 10kHz (Modulation ON), Sweep Time Auto Detector mode Positive peak Indication mode Max hold
Technical standard:	Tolerance of frequency: $\pm 50\times 10^{-6}$
Test result:	Refer to Appendix: 2.4G WIFI of Report No. EED32R81711604.

5.1.4 Occupied Bandwidth (99%)

Test Requirement:	Item 19-2 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.44
EUT Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
EUT → **Spectrum Analyzer**	
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 40MHz RBW 300 kHz VBW 300 kHz Sweep Time Auto Detector mode Positive peak Indication mode Max hold OBW 99%
Technical standard:	26MHz or less
Test result:	Refer to Appendix: 2.4G WIFI of Report No. EED32R81711604.

5.1.5 Spread spectrum Bandwidth (90%)

Test Requirement:	Item 19-2 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.44
EUT Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
EUT → **Spectrum Analyzer**	
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions:	Frequency: Test Frequency Span 40MHz RBW 300kHz VBW 300kHz Sweep Time Auto Detector mode Positive peak Indication mode Max hold OBW 90%
Technical standard:	500kHz or more
Test result:	Refer to Appendix: 2.4G WIFI of Report No. EED32R81711604.

5.1.6 Antenna Power

Test Requirement:	Item 19-2 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.44
EUT Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
	EUT → **Spectrum Analyzer**
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Spectrum Analyzer conditions(FHSS):	1.Search for peak power frequency Frequency: Test Frequency Span 40 MHz RBW 1 MHz VBW 1 MHz Sweep Time Auto detector mode Positive peak Indication mode Max hold 2. Measurement of average antenna power Center frequency: Frequency of peak power found using Span: 0 Hz RBW: 1MHz VBW :3MHz Detector mode: Sample Sweep time: Minimum time required to make an accurate measurement. For burst type (intermittent) transmission, sweep time shall be greater than one burst interval. Sweep data points: 1001 or greater
Technical standard:	Antenna Power (1) 10mW or less (2)Tolerance: ＋20%, -80%
Test result:	Refer to Appendix: 2.4G WIFI of Report No. EED32R81711604.

5.1.7 Unwanted Emission Strength

Test Requirement:	Item 19-2 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.44
EUT Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
EUT → **Spectrum Analyzer**	
EUT conditions:	Modulation/Spread/Hopping on, PN9 Modulation Tx For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.
Measurement Procedure:	Step1 All spurious are measured from 30MHz to 12.5GHz by peak mode. Step2 IF the value measured by Step1 is 2dB or less, measure in average mode.
Spectrum Analyzer conditions(Step 1):	Frequency: 30MHz –12.5GHz RBW 100kHz (30 – 1GHz), 1000KHz (over 1GHz) VBW 300kHz (30 – 1GHz), 3000KHz (over 1GHz) Sweep Time Auto Detector mode Positive peak Indication mode Max hold
Spectrum Analyzer conditions(Step 2):	Frequency: Spurious Frequency Span 0Hz RBW 1MHz VBW 1MHz Sweep Time Auto Detector mode Sample Indication mode Max hold
Technical standard:	(1) Below 2458 MHz : 2.5μW (2) 2458 to 2471 MHz : 25μW (3) 2497 through 2510MHz : 25μW (4) Over 2510 MHz : 2.5μW
Test result:	Refer to Appendix: 2.4G WIFI of Report No. EED32R81711604.

5.1.8 Interference prevention function

Test Procedure

1)For EUTs capable of automatically transmitting identification data

a. Transmit identification data from EUT to Demodulator

b. Confirm identification data is correctly received by Demodulator

2)For EUTs capable of automatically receiving identification data

c. Transmit identification data from Link Partner to EUT

d. Confirm communication link is established

e. Link Partner shall respond by transmitting different identification data back to the EUT

f. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different

MAC Address:7B:CF:3E:46:19:5F

Test result: The unit does meet the requirements.(PASS)

5.1.9 RF accessibility

Standard requirement

Article 49-20, paragraph 1 (a)

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

☐ Sealed with special screws.
☐ Plastic chassis is being welded using ultrasonic waves.
☐ Chassis is glued using a special adhesive.
☒ Metal covers are spot-fused.
☐ Cover is specially interlocked.
☐ RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐ Shield case is welded at RF and modulation parts, and ID-ROM is glued with anon-transparent laminating agent.
☐ Semiconductor circuits of high-frequency parts and modulation parts have more than 10 pins distanced smaller than 1.5mm each other.
Refer to internal photos.

5.2 Receiver Requirements

5.2.1 Secondary Radiated Emission Strength

Test Requirement:	Item 19-2 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.44
EUT Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	
	EUT → **Spectrum Analyzer**
EUT conditions:	Rx
Measurement Procedure:	Step 1 All spurious are measured from 30 MHz to 12.5 GHz by peak mode. Step 2 IF the value measured by Step1 is 2 dB or less, measure in average mode.
Spectrum Analyzer conditions(Step 1):	RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) VBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) Sweep Time Auto Detector mode Positive peak Indication mode Max hold
Spectrum Analyzer Conditions(Step 2):	Frequency: Spurious Frequency Span 0 Hz RBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) VBW 100 kHz (30 – 1GHz) , 1 MHz (over 1GHz) Sweep Time Auto Detector mode Sample Indication mode Max hold
Technical standard:	(1) Below 1 GHz : 4 nW or less (2) 1 GHz and over : 20 nW or less
Test result:	Refer to Appendix: 2.4G WIFI of Report No. EED32R81711604.

6 PHOTOGRAPHS

Refer to Appendix Photographs of Report No. EED32R81711601.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

3. The result(s) shown in this report refer(s) only to the sample(s) tested;

4. Unless otherwise stated,the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***