

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Shenzhen Jiteng Network Technology Co.,Ltd

Mini PC

Model No.: A Series; A 5; A 6; A 7; A x ( x=0-9 )

FCC ID: 2AY4C-GM06

Prepared for : Shenzhen Jiteng Network Technology Co.,Ltd  
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Report Number : ACS-F23072  
Date of Test : Mar.24~Jun.27, 2023  
Date of Report : Jun.27, 2023

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Appendix A. Photograph of Test

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**TEST REPORT**

Applicant : Shenzhen Jiteng Network Technology Co.,Ltd  
Manufacturer : Shenzhen Jiteng Network Technology Co.,Ltd  
Product : Mini PC  
FCC ID : 2AY4C-GM06  
(A) Model No. : A Series; A 5; A 6; A 7; A x ( x=0-9 )  
(B) Test Voltage : AC 120V/60Hz

Tested for comply with:  
FCC CFR 47 Part 15 Subpart C

Test procedure used:  
ANSI C63.10: 2020  
KDB 558074 D01v05r02  
KDB 662911D01v02r01

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to single evaluation of one sample of above mentioned product and shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Mar.24~Jun.27, 2023 Report of date: Jun.27, 2023

Prepared by : Crush Liu Reviewed by : Thomas Chen  
Crush Liu / Assistant Thomas Chen / Assistant Manager



Approved & Authorized Signer :

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

| EMISSION                                                                                                                          |                                            |         |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|
| Description of Test Item                                                                                                          | Standard                                   | Results |
| Power Line Conducted Emission                                                                                                     | FCC Part 15: 15.207                        | PASS    |
| Radiated Emission                                                                                                                 | FCC Part 15: 15.209<br>FCC Part 15: 15.205 | PASS    |
| Band Edge Compliance                                                                                                              | FCC Part 15: 15.247(d)                     | PASS    |
| Conducted spurious emissions                                                                                                      | FCC Part 15: 15.247(d)                     | PASS    |
| 6dB Bandwidth                                                                                                                     | FCC Part 15: 15.247(a)(2)                  | PASS    |
| Peak Output Power                                                                                                                 | FCC Part 15: 15.247(b)(3)                  | PASS    |
| Power Spectral Density                                                                                                            | FCC Part 15: 15.247(e)                     | PASS    |
| Antenna requirement                                                                                                               | FCC Part 15: 15.203                        | PASS    |
| Note: Measurement uncertainty affection to the result is considered, the EUT is technically compliant with standard requirements. |                                            |         |

## 2. GENERAL INFORMATION

### 2.1. Description of Equipment Under Test

|                                           |                                                                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant                                 | Shenzhen Jiteng Network Technology Co.,Ltd                                                                                                                                                     |
| Applicant Address                         | No.1202,Bitian Pavilion,Bizhong Garden,No.10 Bibo First Street,Bibo Community, Huangbei Street,Luohu District,Shenzhen City, China                                                             |
| Manufacturer                              | Shenzhen Jiteng Network Technology Co.,Ltd                                                                                                                                                     |
| Manufacturer Address                      | No.1202,Bitian Pavilion,Bizhong Garden,No.10 Bibo First Street,Bibo Community, Huangbei Street,Luohu District,Shenzhen City, China                                                             |
| Product                                   | Mini PC                                                                                                                                                                                        |
| Model No.                                 | A Series; A 5; A 6; A 7; A x (x=0-9)<br>Model differences (Declared by the Applicant ): some component part difference, As for Radio part: these model's RF module are the same.               |
| Test Model                                | A Series                                                                                                                                                                                       |
| FCC ID                                    | 2AY4C-GM06                                                                                                                                                                                     |
| Power supply#1                            | Manufacturer: SHENZHEN XINSPower TECHNOLOGY CO., LTD<br>M/N:A1001-1904740DI<br>INPUT:100-240V~50/60Hz 2.5A<br>OUTPUT:19.0V; 4.74A 90.0W<br>DC Cable: Shielded, Undetachable, 1.5m              |
| Power supply#2                            | Manufacturer: MOSO POWER SUPPLY TECHNOLOGY CO., LTD.<br>M/N: MS-Z6320R190-120D0-E<br>INPUT:100-240V~50/60Hz 2.0A<br>OUTPUT:19.0V; 6.32A 120.0W<br>DC Cable: Shielded, Undetachable, 1.5m       |
| Power supply#3                            | Manufacturer: Shenzhen Honor Electronic Co.,Ltd.<br>M/N: ADS-110CL-19-3 190090G<br>INPUT: AC 100-240V~50/60Hz 1.5A max<br>OUTPUT:19.0V; 4.74A 90.06W<br>DC Cable: Shielded, Undetachable, 1.5m |
| Power Cable                               | Unshielded, Detachable, 1.3m(3C)                                                                                                                                                               |
| Sample Type                               | Prototype production                                                                                                                                                                           |
| Date of Receipt                           | Mar.13, 2023                                                                                                                                                                                   |
| Date of Test                              | Mar.24~Jun.27, 2023                                                                                                                                                                            |
| Remark: This report only for WIFI 2.4GHz. |                                                                                                                                                                                                |

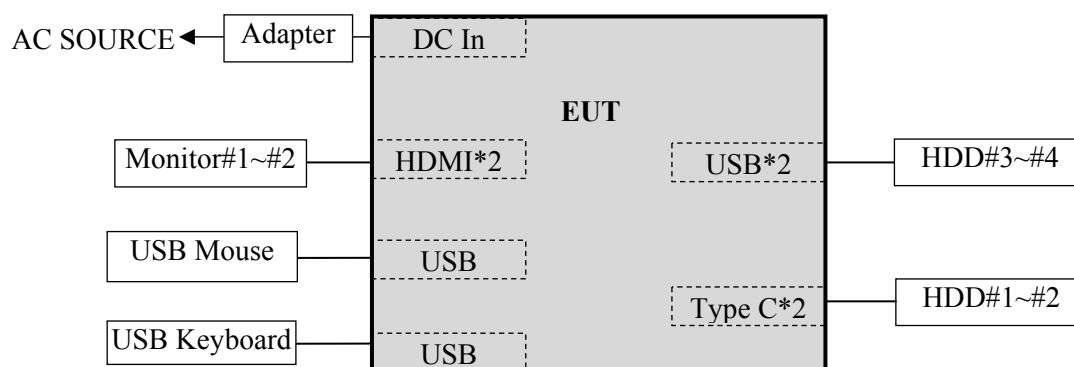
## 2.2.Feature of Equipment Under Test

| Product Feature & Specification |                                                                                                                                                                                                                           |                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Product                         | Mini PC                                                                                                                                                                                                                   |                     |
| Model No.                       | A Series                                                                                                                                                                                                                  |                     |
| Power Source                    | <input checked="" type="checkbox"/> Commercial Power                                                                                                                                                                      | AC 100-240V~50/60Hz |
|                                 | <input checked="" type="checkbox"/> External Power Source                                                                                                                                                                 | DC 19V              |
|                                 | <input type="checkbox"/> Lithium battery                                                                                                                                                                                  | DC V, mAh           |
|                                 | <input type="checkbox"/> UM battery                                                                                                                                                                                       | DC V                |
| Bluetooth                       |                                                                                                                                                                                                                           |                     |
| Radio                           | BDR +EDR; BLE                                                                                                                                                                                                             |                     |
| Frequency Range                 | 2402-2480MHz                                                                                                                                                                                                              |                     |
| Type of Modulation              | GFSK, $\pi/4$ DQPSK, 8DPSK                                                                                                                                                                                                |                     |
| Data Rate                       | 1Mbps, 2Mbps, 3Mbps                                                                                                                                                                                                       |                     |
| Quantity of Channels            | 79/40                                                                                                                                                                                                                     |                     |
| Channel Separation              | 1MHz/2MHz                                                                                                                                                                                                                 |                     |
| 2.4GHz Wi-Fi                    |                                                                                                                                                                                                                           |                     |
| Support Modes                   | 802.11b/g/n20/n40/ax20/ax40(RU is not support for 802.11ax mode)                                                                                                                                                          |                     |
| Frequency Range                 | 2412-2462MHz                                                                                                                                                                                                              |                     |
| Type of Modulation              | 802.11b(DSSS): CCK, QPSK, BPSK;<br>802.11g/n(OFDM): 64QAM,16QAM, QPSK, BPSK<br>802.11ax(OFDM): 64QAM,16QAM, QPSK, BPSK, 1024QAM                                                                                           |                     |
| Data Rate                       | 802.11b: 1/2/5.5/11 Mbps;<br>802.11g: 6/9/12/18/24/36/48/54 Mbps;<br>802.11n: up to 300Mbps<br>802.11ax: up to 574Mbps                                                                                                    |                     |
| Channel Separation              | 5MHz                                                                                                                                                                                                                      |                     |
| 5GHz Wi-Fi                      |                                                                                                                                                                                                                           |                     |
| Support Modes                   | 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80<br>(RU is not support for 802.11ax mode)                                                                                                                                    |                     |
| Frequency Range                 | 5180-5240MHz, 5745-5825MHz                                                                                                                                                                                                |                     |
| Type of Modulation              | 802.11a/n (OFDM): QPSK, BPSK, 16QAM, 64QAM<br>802.11ac (OFDM): QPSK, BPSK, 16QAM, 64QAM,256QAM<br>802.11ax (OFDM): QPSK, BPSK, 16QAM, 64QAM,256QAM,<br>1024QAM                                                            |                     |
| Data Rate                       | 802.11a: 6/9/12/18/24/36/48/54 Mbps;<br>802.11n: up to 300Mbps;<br>802.11ac: up to 867Mbps;<br>802.11ax: up to 1201Mbps                                                                                                   |                     |
| Channel Separation              | 20MHz                                                                                                                                                                                                                     |                     |
| Antenna System                  |                                                                                                                                                                                                                           |                     |
| Type of Antenna                 | PIFA                                                                                                                                                                                                                      |                     |
| Antenna Peak Gain<br>(NUCBC02)  | Bluetooth Peak Gain: 0.54dBi<br>2.4GHz Peak Gain: ANT 0(MAIN): 0.44dBi; ANT 1(AUX):0.54dBi<br>Band 1 Peak Gain: ANT 0(MAIN): 2.47dBi; ANT 1(AUX):-0.7dBi<br>Band 4 Peak Gain: ANT 0(MAIN): 2.09dBi; ANT 1(AUX):0.03dBi    |                     |
| Antenna Peak Gain<br>(NUCAL02)  | Bluetooth Peak Gain: 1.47dBi<br>2.4GHz Peak Gain: ANT 0(MAIN): 1.23dBi; ANT 1(AUX): 1.47dBi<br>Band 1 Peak Gain: ANT 0(MAIN): 3.28dBi; ANT 1(AUX): 4.39dBi<br>Band 4 Peak Gain: ANT 0(MAIN): 7.53dBi; ANT 1(AUX): 5.95dBi |                     |

### 2.3. Tested Supporting System Details

| No. | Description  | ACS No.                                                                                | Manufacturer | Model                | Serial Number                    |
|-----|--------------|----------------------------------------------------------------------------------------|--------------|----------------------|----------------------------------|
| 1.  | Monitor#1    | ---                                                                                    | Lenovo       | ---                  | --                               |
|     |              | Power Cord(3C): Unshielded, Detachable, 1.8m<br>HDMI Cable: Shielded, Detachable, 1.8m |              |                      |                                  |
| 2.  | Monitor#2    | ---                                                                                    | DELL         | P2421                | --                               |
|     |              | Power Cord(3C): Unshielded, Detachable, 1.8m<br>HDMI Cable: Shielded, Detachable, 1.8m |              |                      |                                  |
| 3.  | USB Keyboard | ACS-EMC-K03R                                                                           | DELL         | SK-8120              | CN-ODJ365-71616-2<br>BE-0DCE-A00 |
|     |              | USB Cable: Shielded, Undetachable, 2.0m                                                |              |                      |                                  |
| 4.  | USB Mouse    | ACS-EMC-M03R                                                                           | DELL         | M0C5UO               | 512023253                        |
|     |              | USB Cable: Shielded, Undetachable, 1.8m                                                |              |                      |                                  |
| 5.  | HDD#1        | ---                                                                                    | WD           | WDBC3C0010BSL        | WX51A794028Y                     |
|     |              | Data Cable: Shielded, Detachable, 0.4m                                                 |              |                      |                                  |
| 6.  | HDD#2        | ---                                                                                    | WD           | WDBC3C0020BSL        | WXF1A19JNX5E                     |
|     |              | Date Cable: Shielded, Detachable, 0.4m                                                 |              |                      |                                  |
| 7.  | HDD#3        | ACS-EMC-HDD34                                                                          | WD           | WD My Book<br>Studio | WCAV4302542                      |
|     |              | Data Cable: Shielded, Detachable, 0.4m                                                 |              |                      |                                  |
| 8.  | HDD#4        | ACS-EMC-HDD35                                                                          | WD           | WD My Book<br>Studio | WCAV5D02502                      |
|     |              | Date Cable: Shielded, Detachable, 0.4m                                                 |              |                      |                                  |

### 2.4. Block diagram of connection between the EUT and simulators



**(EUT: Mini PC)**

## 2.5. Test Information

A special test software (Mass Production Kit V1.0.48) was used to control EUT work in Continuous TX mode(The duty cycle of the test signal is 100%), and select test channel, wireless mode and data rate.

| Tested mode, channel, and data rate information                                                                                     |                               |             |                    |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|--------------------|
| Mode                                                                                                                                | data rate<br>(Mbps)(see Note) | Channel     | Frequency<br>(MHz) |
| IEEE 802.11b                                                                                                                        | 1                             | Low :CH1    | 2412               |
|                                                                                                                                     | 1                             | Middle: CH6 | 2437               |
|                                                                                                                                     | 1                             | High: CH11  | 2462               |
| IEEE 802.11g                                                                                                                        | 6                             | Low :CH1    | 2412               |
|                                                                                                                                     | 6                             | Middle: CH6 | 2437               |
|                                                                                                                                     | 6                             | High: CH11  | 2462               |
| IEEE 802.11n HT20                                                                                                                   | MCS0                          | Low :CH1    | 2412               |
|                                                                                                                                     | MCS0                          | Middle: CH6 | 2437               |
|                                                                                                                                     | MCS0                          | High: CH11  | 2462               |
| IEEE 802.11n HT40                                                                                                                   | MCS0                          | Low :CH3    | 2422               |
|                                                                                                                                     | MCS0                          | Middle: CH6 | 2437               |
|                                                                                                                                     | MCS0                          | High: CH9   | 2452               |
| IEEE 802.11ax HE20                                                                                                                  | MCS0                          | Low :CH1    | 2412               |
|                                                                                                                                     | MCS0                          | Middle: CH6 | 2437               |
|                                                                                                                                     | MCS0                          | High: CH11  | 2462               |
| IEEE 802.11ax HE40                                                                                                                  | MCS0                          | Low :CH3    | 2422               |
|                                                                                                                                     | MCS0                          | Middle: CH6 | 2437               |
|                                                                                                                                     | MCS0                          | High: CH9   | 2452               |
| Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test. |                               |             |                    |

## 2.6. Test Facility

### Site Description

#### Name of Firm

: Audix Technology (Shenzhen) Co., Ltd.  
No. 6, Kefeng Road, Science & Technology Park,  
Nanshan District , Shenzhen, Guangdong, China

#### EMC Lab.

: Certificated by ISED, Canada  
Company Number: 5183A  
CAB identifier: CN0034  
Valid Date: Mar.31, 2024

: Certificated by FCC, USA  
Designation No.: CN5022  
Valid Date: Mar.31, 2024

: Accredited by NVLAP, USA  
NVLAP Code: 200372-0  
Valid Date: Mar.31, 2024

## 2.7.Measurement Uncertainty (95% confidence levels, k=2)

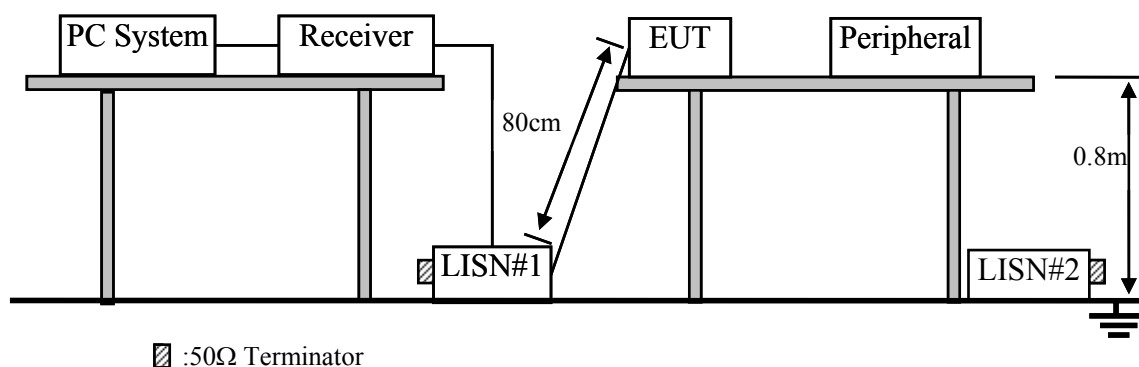
| Test Item                                                            | Uncertainty                                     |
|----------------------------------------------------------------------|-------------------------------------------------|
| Uncertainty for Conduction emission test<br>in No. 1 Conduction      | $\pm 2.6\text{dB}$ (150kHz to 30MHz)            |
| Uncertainty for Radiation Emission test<br>in 3m chamber             | $\pm 3.8\text{dB}$ (30~200MHz, Polarization: H) |
|                                                                      | $\pm 3.8\text{dB}$ (30~200MHz, Polarization: V) |
|                                                                      | $\pm 4.0\text{dB}$ (200M~1GHz, Polarization: H) |
|                                                                      | $\pm 4.0\text{dB}$ (200M~1GHz, Polarization: V) |
| Uncertainty for Radiation Emission test<br>in 3m chamber(1GHz-18GHz) | $\pm 4.0\text{dB}$ (1~6GHz, Distance: 3m)       |
|                                                                      | $\pm 4.0\text{dB}$ (6~18GHz, Distance: 3m)      |
| Uncertainty for Radiated Spurious<br>Emission test in RF chamber     | $\pm 3.7\text{dB}$ (30MHz~1000MHz)              |
|                                                                      | $\pm 3.3\text{dB}$ (1~26.5GHz)                  |
| Uncertainty for Power density test                                   | $\pm 2.0\text{dB}$                              |
| Uncertainty for Output power test                                    | $\pm 0.8\text{dB}$                              |
| Uncertainty for Bandwidth test                                       | $\pm 83\text{kHz}$                              |
| Uncertainty for DC power test                                        | $\pm 1\%$                                       |
| Uncertainty for test site temperature and<br>humidity                | $\pm 0.6^{\circ}\text{C}$                       |
|                                                                      | $\pm 3\%$                                       |

### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

| Item | Equipment         | Manufacturer    | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|-----------------|-----------|------------|-----------|---------------|
| 1.   | 1# Shielding Room | AUDIX           | N/A       | N/A        | Nov.09,22 | 5 Year        |
| 2.   | EMI Test Receiver | Rohde & Schwarz | ESCI      | 100842     | Apr.01,23 | 1 Year        |
| 3.   | L.I.S.N.#1        | Rohde & Schwarz | ENV216    | 102160     | Oct.08,22 | 1 Year        |
| 4.   | L.I.S.N.#2        | Kyoritsu        | KNW-407   | 8-1628-5   | Apr.01,23 | 1 Year        |
| 5.   | RF Cable          | Eastsheep       | RG223     | 190424     | Oct.08,22 | 1 Year        |
| 6.   | Terminator        | Hubersuhner     | 50Ω       | No.1       | Apr.02,23 | 1 Year        |
| 7.   | Test Software     | AUDIX           | e3        | 6.100913a  | N/A       | N/A           |

#### 3.2. Block Diagram of Test Setup



#### 3.3. Power Line Conducted Emission Test Limits

| Frequency       | Maximum RF Line Voltage    |                         |
|-----------------|----------------------------|-------------------------|
|                 | Quasi-Peak Level<br>dB(μV) | Average Level<br>dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56*                   | 56 ~ 46*                |
| 500kHz ~ 5MHz   | 56                         | 46                      |
| 5MHz ~ 30MHz    | 60                         | 50                      |

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limits shall apply at the transition frequencies.

3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB) + Reading (Receiver) (dBμV)

#### 3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

##### 3.4.1. Mini PC (EUT)

Model No. : A Series

Serial No. : N/A

##### 3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.3.