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AC Infinity AC-ADA8

AC Infinity Outlet AI+ Environment Controller Instruction Manual

Model: AC-ADA8

INTRODUCTION

The AC Infinity Outlet AI+ is a smart WiFi power strip designed to provide precise environmental control for various applications, including grow spaces, aquariums, terrariums, and home HVAC systems. This device features dual-zone temperature and humidity monitoring, individual control for up to eight outlets, and AI-powered climate targeting to maintain optimal conditions. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your Outlet AI+ controller.



Image: The AC Infinity Outlet AI+ Smart WiFi Power Strip, showing its eight outlets, power button, and an attached temperature and humidity probe. A smartphone displaying the control app is also visible.

PRODUCT OVERVIEW

The Outlet AI+ offers advanced features for comprehensive environmental management:

- **Independent Smart Outlets:** Control up to eight devices individually with climate triggers, schedules, or timers.
- **AI Climate Targeting:** Leverage artificial intelligence to synchronize various equipment to achieve and

maintain a desired environment.

- **Remote Control via WiFi:** Manage your setup from anywhere using the dedicated AC Infinity app, which provides real-time alerts, data charts, and AI-powered insights.
- **Precision Monitoring:** Features dual-zone temperature, humidity, and VPD (Vapor Pressure Deficit) tracking.
- **Expandable Sensors:** Supports optional CO₂, hydro, and soil sensors (sold separately) for advanced environmental monitoring.
- **Broad Compatibility:** Works with various outlet devices such as heaters, lights, fans, CO₂ systems, and water pumps.
- **Safety Features:** 1800W maximum capacity and built-in surge protection.

AI-CONTROLLED CLIMATE

Programmable outlets with AI climate targeting to create the ideal environment in grow spaces, aquariums, terrariums, home HVAC and more.



Image: The AC Infinity Outlet AI+ connected to multiple devices, illustrating its role in AI-controlled climate management with icons for temperature, humidity, airflow, lighting, and expandable sensors.

PACKAGE CONTENTS

Verify that all components are present in your package:

- AC Infinity Outlet AI+ Environment Controller (Model AC-ADA8)
- Temperature and Humidity Probe
- Instruction Manual

SETUP GUIDE

1. Initial Connection

1. Unpack the Outlet AI+ controller and its components.
2. Plug the temperature and humidity probe into the designated port on the controller.
3. Position the probe in the area where you wish to monitor environmental conditions. Ensure it is not directly exposed to heat sources or airflow that could skew readings.
4. Plug the Outlet AI+ power cord into a standard 120V AC electrical outlet. The power indicator light on the controller will illuminate.

2. App Installation and Pairing

1. Download the AC Infinity app from your smartphone's app store (available for iOS and Android).
2. Open the app and create an account or log in if you already have one.
3. Follow the in-app instructions to add a new device. This typically involves selecting the Outlet AI+ from a list of devices and following prompts to connect it to your local WiFi network.
4. Ensure your smartphone is connected to a 2.4GHz WiFi network during the pairing process, as the device may not support 5GHz networks.
5. Once successfully paired, the app will display the current environmental readings and allow you to configure the outlets.

OPERATION

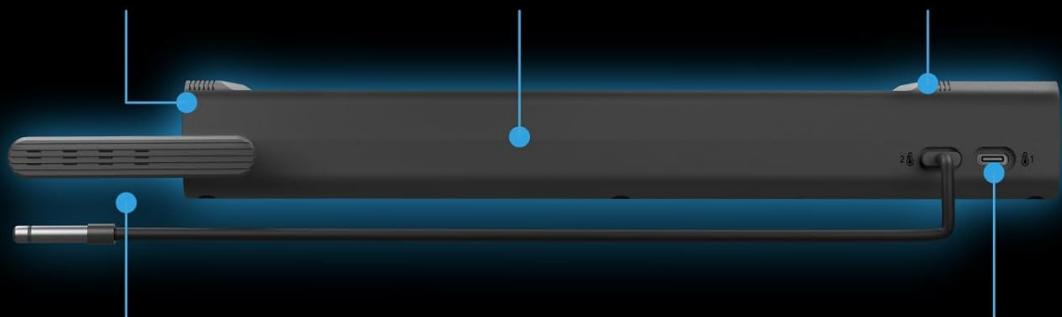
1. Individual Outlet Control

Each of the eight outlets can be controlled independently through the AC Infinity app.

- **Manual Control:** Turn outlets on or off directly from the app interface.
- **Scheduled Operation:** Set specific times for outlets to turn on or off.
- **Timer Functions:** Configure outlets to run for a set duration.
- **Climate Triggers:** Program outlets to activate or deactivate based on temperature, humidity, or VPD readings from the connected probe. For example, turn on a fan if temperature exceeds a set threshold.

INTELLIGENT PROGRAMMING

Independent Control for up to 8 Devices



Dual-Zone Temperature, Humidity and VPD

Program Temp., Humidity, VPD Triggers

Automate Timers, Cycles, and Schedules

Support for Adding Sensors like CO₂ & Hydro

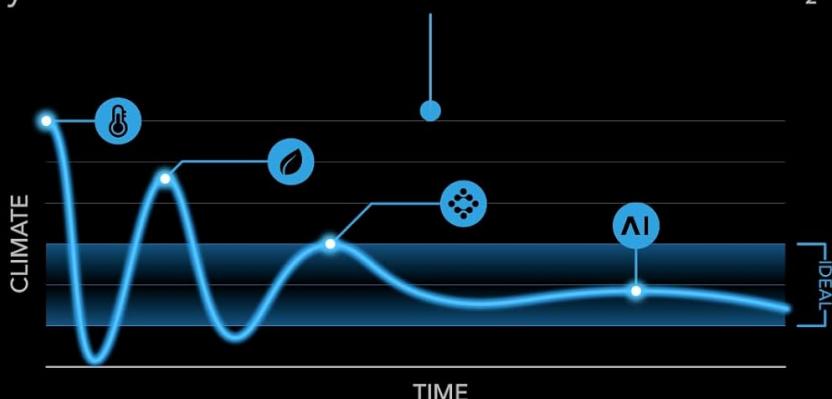


Image: A diagram illustrating the intelligent programming capabilities of the Outlet AI+, including independent control, temperature/humidity/VPD triggers, automated timers/cycles/schedules, dual-zone monitoring, AI synchronization, and support for additional sensors.

2. AI Climate Targeting

The AI functionality allows the controller to learn from your environment and automatically adjust connected devices to maintain an ideal climate. This feature optimizes conditions by preventing over- or undershooting output levels.

- Enable AI targeting within the app for specific zones or overall environment.
- Set your desired target climate parameters (e.g., ideal temperature range, humidity levels).
- The AI will then manage the connected devices to achieve and sustain these targets efficiently.

3. Monitoring and Data

The AC Infinity app provides comprehensive monitoring capabilities:

- **Real-time Data:** View current temperature, humidity, and VPD readings.
- **Data Charts:** Access historical data and trends for environmental conditions.

- **Alert Notifications:** Receive push notifications for critical events or when conditions deviate from set parameters.
- **AI-Powered Insights:** Gain recommendations and analysis based on your environmental data.

MONITOR FROM ANYWHERE

Stay connected to your setup from anywhere with our Wi-Fi app, featuring alert notifications, data charts, guides, and AI-powered insights.



Image: Multiple screenshots of the AC Infinity mobile app, demonstrating remote monitoring of environmental data, outlet controls, and AI-driven insights.

4. Advanced Sensors

The Outlet AI+ supports additional sensors (sold separately) to expand its monitoring capabilities:

- **CO₂ Sensors:** Monitor carbon dioxide levels for optimized plant growth.
- **Hydro Sensors:** Track pH, TDS (Total Dissolved Solids), and EC (Electrical Conductivity) in hydroponic systems.
- **Soil Sensors:** Measure soil moisture and nutrient levels.

These sensors integrate with the controller and app to provide a more detailed understanding and control of your environment.

ADD ADVANCED SENSORS

Each controller includes dual-zone climate sensors and supports additional sensors like CO₂, light, hydro, soil, water, and more (sold separately).



Image: An illustration showing the AC Infinity Outlet AI+ setup with various optional sensors, including hydro sensors and CO₂/light sensors, integrated into different environmental setups.

MAINTENANCE

To ensure the longevity and optimal performance of your AC Infinity Outlet AI+ controller, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the exterior of the controller with a dry, soft cloth. Avoid using abrasive cleaners or solvents.
- **Probe Care:** Keep the temperature and humidity probe clean and free from dust or debris. Do not immerse the probe in liquid unless specifically designed for such use.
- **Firmware Updates:** Periodically check the AC Infinity app for available firmware updates for your controller. Updates often include performance improvements and new features.
- **Environmental Conditions:** Ensure the controller is operated within its specified temperature and humidity ranges. Avoid extreme conditions that could damage the device.
- **Cable Management:** Keep all cables neatly organized and free from kinks or damage to prevent electrical issues.

TROUBLESHOOTING

If you encounter issues with your Outlet AI+ controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Controller not powering on.	No power from outlet; damaged power cord.	Check the power outlet with another device. Inspect the power cord for damage.
Unable to connect to WiFi.	Incorrect WiFi password; 5GHz network selected; controller too far from router.	Verify WiFi password. Ensure you are connecting to a 2.4GHz network. Move the controller closer to the router. Restart the controller and router.
Outlets not responding to commands.	No internet connection; app glitch; device not properly plugged in.	Check your internet connection. Restart the app. Unplug and re-plug the device into the outlet. Ensure the device is properly configured in the app.
Inaccurate sensor readings.	Probe is dirty or damaged; probe positioned incorrectly.	Clean the probe gently. Reposition the probe away from direct heat or airflow. If damaged, replace the probe.
AI targeting not working as expected.	Incorrect target settings; insufficient data for AI learning.	Review and adjust your AI target settings in the app. Allow time for the AI to gather data and learn your environment.

For further assistance, please contact AC Infinity customer support.

SPECIFICATIONS

Feature	Detail
Model	AC-ADA8
Brand	AC Infinity
Max Wattage	1800W
Voltage	100-240V AC
Number of Outlets	8
Connectivity	Wi-Fi + Bluetooth (App Control)
Onboard Sensor	Temperature & Humidity (Dual-Zone)
Supported Sensors	3 (1 Built-in, supports additional CO ₂ , Hydro, Soil sensors sold separately)
Material	Acrylonitrile Butadiene Styrene (ABS)
Item Weight	2.51 pounds

Feature	Detail
Package Dimensions	13.66 x 6.3 x 4.37 inches
Cord Length	6 feet (183 cm)
Probe Length	12 feet (366 cm)

SPECIFICATIONS

MODEL | OUTLET AI+ (AC-ADA8)

APP CONTROL | Wi-Fi + Bluetooth

DEVICES SUPPORTED | 8

MAX WATTAGE | 1800W

SENSORS SUPPORTED | 3 (1 Built In)

VOLTAGE | 100-240V AC

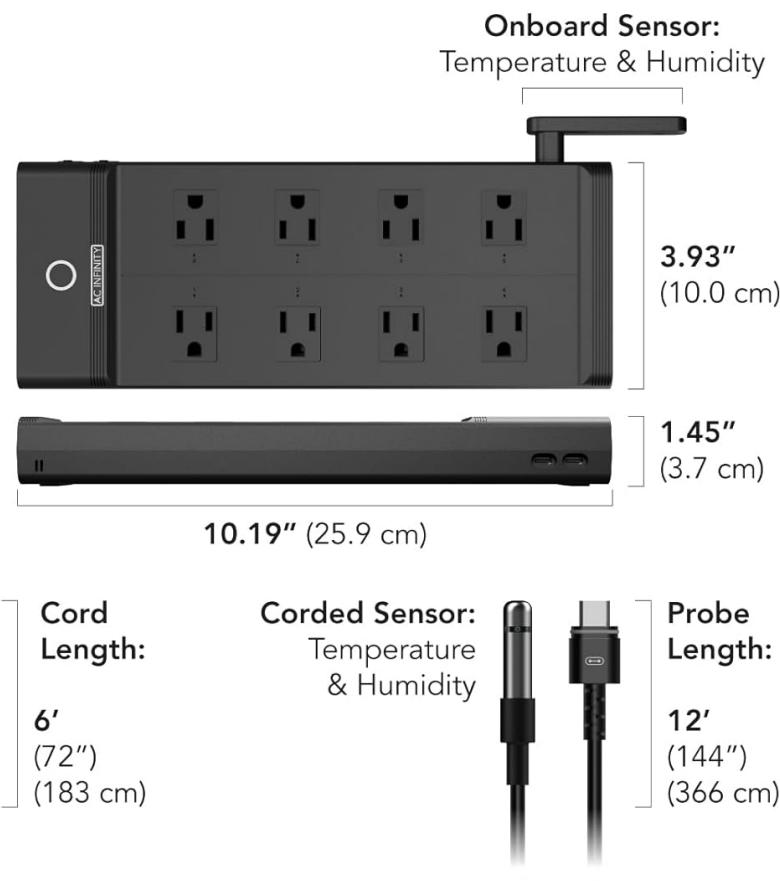


Image: A detailed diagram showing the physical dimensions of the AC Infinity Outlet AI+ controller, including its length, width, height, cord length, and probe length.

WARRANTY INFORMATION

AC Infinity products typically come with a manufacturer's warranty covering defects in materials and workmanship. Please refer to the warranty card included with your product or visit the official AC Infinity website for the most current and detailed warranty policy. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

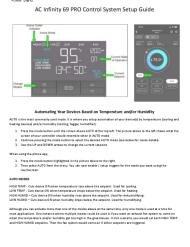
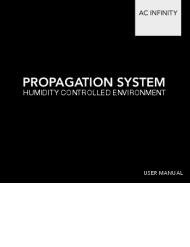
For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact AC Infinity customer support:

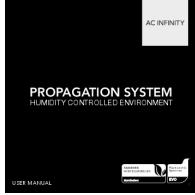
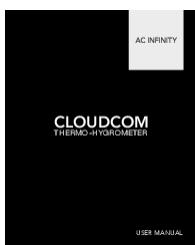
- **Website:** Visit the official AC Infinity website for FAQs, support articles, and contact information.
- **Email:** Refer to your product packaging or the AC Infinity website for the support email address.
- **Phone:** Contact numbers may be available on the official website.

When contacting support, please have your product model (AC-ADA8) and purchase information readily available.

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Related Documents - AC-ADA8

 <p>VPD THERMOMETER AC INFINITY</p>	<p>AC Infinity VPD Thermometer User Manual - Model AC-TRV3</p> <p>Comprehensive user manual for the AC Infinity VPD Thermometer (Model AC-TRV3), covering features, setup, operation, programming, and warranty information. Learn to measure air and leaf VPD, temperature, and humidity for optimal environmental control.</p>
 <p>AC INFINITY CLOUDCOM THERMO-HYGROMETER USER MANUAL</p>	<p>AC Infinity CLOUDCOM Thermo-Hygrometer User Manual</p> <p>User manual for the AC Infinity CLOUDCOM Thermo-Hygrometer. Learn about its features, installation, programming, app connectivity, and warranty. Includes model details for AC-CCA1, AC-CCA2, AC-CCB1, and AC-CCB2.</p>
 <p>AC Infinity 69 PRO Control System Setup Guide</p>	<p>AC Infinity 69 PRO Control System Setup Guide</p> <p>A comprehensive setup guide for the AC Infinity 69 PRO Control System, detailing how to automate devices using temperature and humidity triggers, and configure buffer settings via the controller or mobile app.</p>
 <p>AC INFINITY PROPAGATION SYSTEM HUMIDITY CONTROLLED ENVIRONMENT USER MANUAL</p>	<p>AC Infinity Propagation System User Manual: Humidity Controlled Environment</p> <p>Comprehensive user manual for the AC Infinity Propagation System, detailing installation, features, programming, and starter guides for humidity domes, LED grow lights, and seedling mats. Includes product specifications and warranty information.</p>

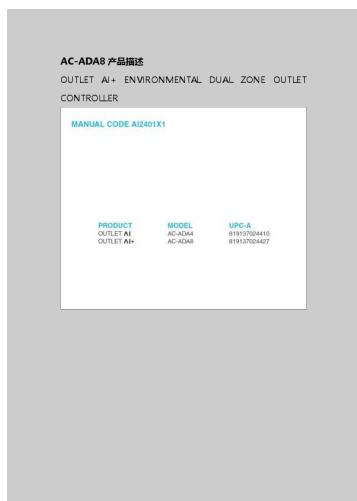
	<p>AC Infinity Propagation System User Manual: Humidity Controlled Environment</p> <p>Comprehensive user manual for the AC Infinity Propagation System, detailing installation, setup, features, programming, and maintenance of humidity-controlled environments, LED lighting, and controllers. Includes product specifications and warranty information.</p>
	<p>AC Infinity Cloudcom Thermo-Hygrometer User Manual</p> <p>User manual for the AC Infinity Cloudcom Thermo-Hygrometer, covering installation, features, app integration, programming, and warranty information.</p>

Documents - AC Infinity – AC-ADA8



[\[pdf\] User Manual](#)

OUTLET AI Environment Controller Smart WiFi Outlets Dual Zone Temperature Humidity Targeting
 Dynamic ON OFF Programming Expandable Sensors Individual Control 8 Plugs 1800W AC
 InfinityAI2407X1 240711 Manualinfinity content AI2407X1 Manual |||
 OUTLET CONTROLLER WELCOME Thank you for choosing AC Infinity. We are
 committed to product quality ... nity.com LOCATION Los Angeles, CA 3 MANUAL
 CODE AI2407X1 PRODUCT OUTLET OUTLET MODEL AC-ADA4 **AC-ADA8** UPC-A
 819137024410 819137024427 4 MANUAL INDEX Manual Index
 lang:en **score:24** filesize: 746.48 K page_count: 28 document date: 2024-07-11



[\[pdf\] User Manual Instructions](#)

admin User manual AC Infinity Inc ADA 2AXMF 2AXMFADA ada
AC-ADA8 OUTLET AI ENVIRONMENTAL DUAL ZONE OUTLET CONTROLLER
 FCC Warning Statement Changes or modifications not expressly approved by the
 party responsible for compliance could void the user's authority to operate the
 equipment. This equipment has been tested and found to comply with t...
 lang:en **score:23** filesize: 893.34 K page_count: 14 document date: 2024-02-27

FCC Test Report

Test report
On Behalf of
AC Infinity Inc.
For
OUTLET AI+
Model No.: AC-ADA8, AC-ADA4
FCC ID: 2AXMF-ADA

Prepared For : AC Infinity Inc.
21880 Baker Parkway, City of Industry, California 91789 United States

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd
10/F, Building B2, Jufeng Zhongcheng Zhico Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Sept. 13, 2023 ~ Sept. 25, 2023
Date of Report: Sept. 25, 2023
Report Number: HK2309134230-2E

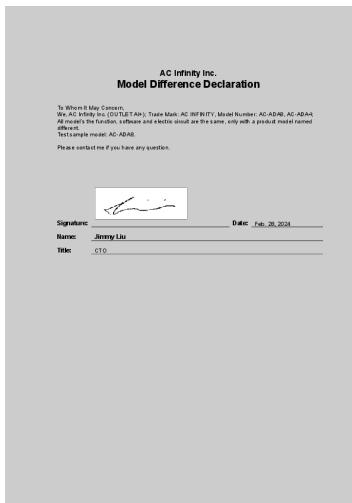
[pdf] Test Report

Microsoft Word AC ADA8 FCC ID 15 247 Test Report BLE admin report Infinity Inc ADA 2AXMF 2AXMFADA ada

Page 1 of 44 Report No.: HK2309134230-2E FCC Test Report Test report On Behalf of AC Infinity Inc. For OUTLET AI Model No.: **AC-ADA8**, AC-ADA4 FCC ID: 2AXMF-ADA Prepared For : AC Infinity Inc. 21880 Baker Parkway, City of Industry, California 91789 United States Prepared By : Shenzhen HUAK Tes...

lang:en score:23 filesize: 3.8 M page_count: 44 document date: 2024-02-28

The results shown in this FCC report refer only to the specific model series identified and the conditions as tested for this report. This document is issued by FCC. TEL: +86-755-2302 9901 FAX: +86-755-2302 9901 E-mail: service@cnmark.com Add: 1-27, Building B2, Jufeng Zhongcheng Zhico Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



[pdf] Declaration of Conformity

Microsoft Word FCC Model Difference Declaration admin AC Infinity Inc ADA 2AXMF 2AXMFADA ada AC Infinity Inc. Model Difference Declaration To Whom It May Concern, We, AC Infinity Inc. OUTLET AI ; Trade Mark: AC INFINITY, Model Number: **AC-ADA8**, AC-ADA4; All model s the function, software and electric circuit are the same, only with a product model named different. Test sample model: AC-ADA...

lang:en score:22 filesize: 61.59 K page_count: 1 document date: 2024-02-28



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dell990 US Agent for Service of Process AC Infinity Inc ADA 2AXMF 2AXMFADA ada

AC Infinity Inc. Section 2.911 d 7 USA Agent for Service of Process Company name: AC Infinity Inc. Address: 21880 Baker Parkway, City of Industry, California 91789 United States Product Name: OUTLET AI FCC ID: 2AXMF-ADA Model s : **AC-ADA8**, AC-ADA4 2.911 d 7 USA Designated Agent for Service of Pr...

lang:en score:20 filesize: 182.95 K page_count: 2 document date: 2024-02-28

AC Infinity Inc.
Agent Authorization

Company: AC Infinity Inc.
Address: 21880 Baker Parkway, City of Industry, California 91789 United States
Product Name: OUTLET AI
Model Number(s): AC-ADA8, AC-ADA4
Product Description: OUTLET AI

We authorize MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA, to act on our behalf on all matters concerning the certification of above named equipment.

We declare that MiCOM Labs Inc. is authorized to furnish all information related to the approval and certification of equipment to the regulatory agencies as required and to discuss any issues concerning the approval of the equipment. Any acts and acts carried out by MiCOM Labs on our behalf shall have the same effect as acts carried out by us.

 Date: Feb. 28, 2024

Signature: Name: Jimmy Liu
Title: CTO
Company: AC Infinity Inc.

[pdf] Agent Authorization

Microsoft Word Agent Authorization Rev 1 0 admin AC Infinity Inc ADA 2AXMF 2AXMFADA ada
AC Infinity Inc. Agent Authorization Company: AC Infinity Inc. Address: 21880 Baker Parkway, City of Industry, California 91789 United States Product Name: OUTLET AI Model Number s : **AC-ADA8, AC-ADA4** Product Description: OUTLET AI We authorize MiCOM Labs Inc., 575 Boulder Court, Pleasanton, Califo...
lang:en **score:20** filesize: 67.15 K page_count: 1 document date: 2024-02-28

AC Infinity Inc.

Section 2.911(d)(5)(i) Certification – Equipment Type

Company name: AC Infinity Inc.
Address: 21880 Baker Parkway, City of Industry, California 91789 United States
Product Name: OUTLET AI
FCC ID: 2A5MF-ADA
Model(s): AC-ADA8, AC-ADA4

2.911(d)(5) Equipment Type

We, [AC Infinity Inc.] ("the applicant") certify that the equipment for which authorization is sought through certification is not the equipment for which authorization is sought pursuant to § 2.903 of the FCC rules

- Protected from receiving an equipment authorization pursuant to § 2.903 of the FCC rules
- Identified as an equipment type in the "Covered List" <https://www.fcc.gov/equipment/covered-list>

Yours sincerely,

Name: Jimmy Liu Date: Feb. 28, 2024
Title: CTO
Company name: AC Infinity Inc.



NOTE 1: "Covered List" is the List of Equipment and Services Covered By Section 2 of The Secure Networks Act, available at <https://www.fcc.gov/equipment/covered-list>

References:
1) 000440101 Covered Equipment ID: <https://www.fcc.gov/equipment/covered-list>
2) Fccid Register document 2023-02800 published on 02/26/2023 <https://www.fcc.gov/equipment/covered-list> protecting against national security threats to the use

2.911 (d)(5) Equipment Type certification v1

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AC Infinity Inc. Section 2.911 d 5 i Certification Equipment Type Company name: AC Infinity Inc. Address: 21880 Baker Parkway, City of Industry, California 91789 United States Product Name: OUTLET AI FCC ID: 2AXMF-ADA Model s : **AC-ADA8, AC-ADA4** 2.911 d 5 i Equipment Type We, AC Infinity In...

lang:en **score:20** filesize: 135.5 K page_count: 1 document date: 2024-02-28

AC Infinity Inc.

Section 2.911(d)(5)(ii) Certification – Applicant (Covered List)

Company name: AC Infinity Inc.
Address: 21880 Baker Parkway, City of Industry, California 91789 United States
Product Name: OUTLET AI
FCC ID: 2A5MF-ADA
Model(s): AC-ADA8, AC-ADA4

2.911(d)(5) Applicant filing

We, [AC Infinity Inc.] ("the applicant") certify that, as of the date of the filing of the application, the applicant is not identified in the "Covered List" established pursuant to § 2.9002 of this chapter, as an entity producing covered communications equipment.

Yours sincerely,

Name: Jimmy Liu Date: Feb. 28, 2024
Title: CTO
Company name: AC Infinity Inc.



NOTE 1:
NOTE 2: "Covered List" is the List of Equipment and Services Covered By Section 2 of The Secure Networks Act, available at <https://www.fcc.gov/equipment/covered-list>

References:
1) 000440101 Covered Equipment ID: <https://www.fcc.gov/equipment/covered-list>
2) Fccid Register document 2023-02800 published on 02/26/2023 <https://www.fcc.gov/equipment/covered-list> protecting against national security threats to the use

2.911 (d)(5) Applicant filing v1

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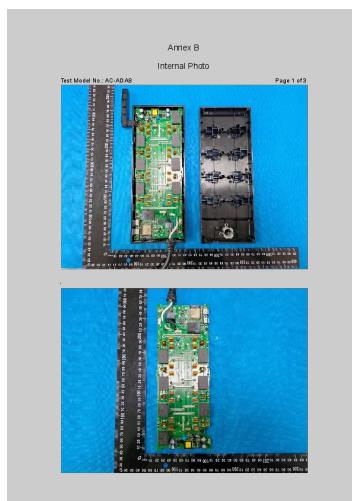
AC Infinity Inc. Section 2.911 d 5 ii Certification Applicant Covered List Company name: AC Infinity Inc. Address: 21880 Baker Parkway, City of Industry, California 91789 United States Product Name: OUTLET AI FCC ID: 2AXMF-ADA Model s : **AC-ADA8, AC-ADA4** 2.911 d 5 ii Applicant filing We,...

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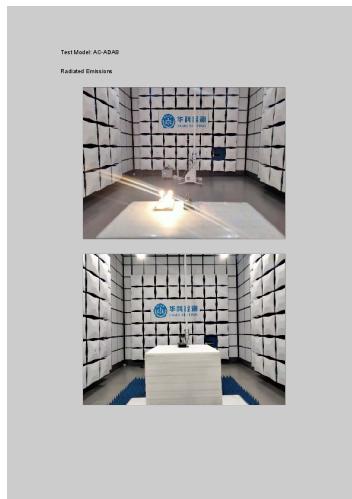
[\[pdf\]](#) Product Photos

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Page 2 of 4 Test Model No.: **AC-ADA8** Page 3 of 4 Test Model No.: **AC-ADA8**
Page 4 of 4 ...
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[\[pdf\]](#) Product Photos Teardown

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Test Model No.: **AC-ADA8** Annex B Internal Photo Page 1 of 3 Test Model No.: **AC-ADA8**
Page 2 of 3 Antenna Test Model No.: **AC-ADA8** Page 3 of 3 ...
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[\[pdf\]](#) Product Photos

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