



**HIO-W215-ADL HIO
Open Frame
Industrial
Touchscreen
Computer**



premio HIO-W215-ADL HIO Open Frame Industrial Touchscreen Computer User Guide

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premio HIO-W215-ADL HIO Open Frame Industrial Touchscreen Computer



Specifications

- **Model:** HIO-W215-N97-P
- **Compatibility:** Windows and Linux
- **Support:** AWS IoT Greengrass v2

Product Information

The HIO-W215-N97-P is a hardware device that supports AWS IoT Greengrass, allowing users to create, deploy, and manage components on edge devices.

Hardware Description

The HIO-W215-N97-P device provides seamless integration with AWS IoT Greengrass. For detailed product specifications, refer to the datasheet [here](#).

Setup Instructions

Set up your Development Environment

AWS IoT Greengrass supports both Windows and Linux operating systems. Please refer to the [developer guide](#) for the required tools and proper setup instructions.

Set up your Hardware

Refer to the device User's Manual for detailed hardware setup instructions.

Install AWS Command Line Interface

To install the AWS CLI on your host machine, follow the instructions provided [here](#). Configuring the CLI with appropriate access key ID, secret access key, and AWS Region is necessary for further setup.

Install AWS IoT Greengrass

Follow the online guide for installing AWS IoT Greengrass. This includes setting up the device environment, providing AWS credentials, downloading and installing the AWS IoT Greengrass Core software.

Create a Hello World Component

To create, deploy, test, update, and manage a simple component on your device, refer to the instructions provided in the [Getting Started](#) section. You can also upload the component to the cloud following the instructions in the Upload Your Component section.

Deploy your component

Follow the instructions online to deploy your component and verify its successful operation.

FAQ

Q: Where can I find troubleshooting tips for AWS IoT Greengrass?

A: General troubleshooting tips can be found at [here](#). For device-specific issues, please contact techsupport@premioinc.com

Document Information

- Version
 - 1.0
- Date
 - August 2024
- Description
 - Publish Document

Overview

Introduction

The HIO Open Frame Industrial Touchscreen Computer offers a slim 15.6" 16:9 HD display while maintaining a rugged IP65 Front Panel Display with 7H glass for industrial-grade durability. The HIO Series is powered by Premio's CT-DAL01 Single Board Computer with Intel 12th Generation Alder Lake. Intel's Alder Lake-N represents the latest in entry level processors, designed for low power, efficient throughput and multi-core performance. Using the same Gracemont CPU architecture found in the Efficiency cores in 12th/13th Generation Intel Core CPUs, the Alder Lake-N processors boosts the performance over previous entry level processors from Intel by up to 28%, and provides power efficiency in a low TDP design.

About AWS IoT Greengrass

To learn more about AWS IoT Greengrass, see [how it works](#) and [what's new](#).

Hardware Description

DataSheet

Click on this [link](#) to view the datasheet of HIO-W215-N97-P

Additional Hardware References

Please refer to the [HIO-W215-N97-P](#) device page for more product details

User-Provided Items

Not applicable.

3rd Party Purchasable Items

Not applicable.

Set up your Development Environment

AWS IoT Greengrass supports both Windows and Linux:

<https://docs.aws.amazon.com/greengrass/v2/developerguide/operating-system-feature-support-matrix.html>.

Please refer to the developer guide for the required tools and proper setup:

<https://docs.aws.amazon.com/greengrass/v2/developerguide/what-is-iot-greengrass.html>

It is recommended to install the following tools/SDKs:

- Java Runtime Environment (JRE) version 8 or greater
- Java Development Kit (JDK) Amazon Corretto 11 (<https://aws.amazon.com/corretto/>) or OpenJDK 11 (<https://openjdk.java.net/>)
- GNU C Library (<https://www.gnu.org/software/libc/>); (glibc) version 2.25 or greater

Set up your Hardware

Please refer to the device [User's Manual](#) for the hardware setup.

Setup your AWS account and Permissions

Refer to the online AWS documentation at Set up your AWS Account:

<https://docs.aws.amazon.com/iot/latest/developerguide/setting-up.html>

Follow the steps outlined below to create your account and user to get started:

- Sign up for an AWS account:
 - <https://docs.aws.amazon.com/iot/latest/developerguide/setting-up.html#aws-registration>
- Create a user and grant it the proper permissions:
 - <https://docs.aws.amazon.com/iot/latest/developerguide/setting-up.html#create-iam-user>
- Open the AWS IoT console:
 - <https://docs.aws.amazon.com/iot/latest/developerguide/setting-up.html#iot-console-signin>

Create Resources in AWS IoT

Refer to the instructions on how to create AWS IoT resource:

<https://docs.aws.amazon.com/iot/latest/developerguide/create-iot-resources.html>

Follow the steps outlined in these sections to provision resources for your device:

- Create an AWS IoT Policy
- Create a thing object

Install the AWS Command Line Interface

To install the AWS CLI on your host machine, refer to the instructions:

- <https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>

Installing the CLI is required to complete the instructions in this guide. Once you have installed AWS CLI, configure it per the instructions:

- <https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-quickstart.html#cli-configure-quickstart-config>

Set the appropriate values for access key ID, secret access key, and AWS Region based on your AWS account. You can set Output format to “json” if you prefer.

Install AWS IoT Greengrass

Follow the online guide to [Install with automatic provisioning](#). Refer to the instructions in the following steps:

[Set up the device environment Provide AWS credentials to the device](#). For development environments, you can use the option “Use long-term credentials from an IAM User”. An example of how to do this is shown below:

- export AWS_ACCESS_KEY_ID=<the access key id for your user>
- export AWS_SECRET_ACCESS_KEY=<the secret access key for your user>

[Download the AWS IoT Greengrass Core software Install the AWS IoT Greengrass Core software](#)

Create a Hello World Component

In AWS IoT Greengrass v2, components can be created on the edge device and uploaded to the cloud, or vice versa.

To create, deploy, test, update and manage a simple component on your device, follow the instructions under the section “To Create a Hello World Component”:

- <https://docs.aws.amazon.com/greengrass/v2/developerguide/getting-started.html>

To upload the component to the cloud, follow the instructions under the section “Upload Your Component”:

- <https://docs.aws.amazon.com/greengrass/v2/developerguide/upload-first-component.html>

Deploy your component

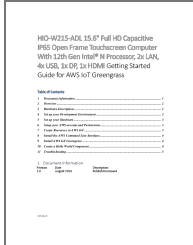
Follow the instructions online at [Deploy your Component](#) to deploy and verify that your component is running.

Troubleshooting

For AWS IoT Greengrass general troubleshooting tips, please refer to:

<https://docs.aws.amazon.com/greengrass/v2/developerguide/troubleshooting.html> For device-specific troubleshooting guide, please contact us directly at techsupport@premioinc.com

Documents / Resources

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References

-  [OpenJDK Download - Corretto - AWS](#)
-  [OpenJDK](#)
-  [The GNU C Library - GNU Project - Free Software Foundation](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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