

# Getting Started Guide For AWS IoT Greengrass

AIO-W221-MTL 21.5" Full HD  
Capacitive IP65 All In One  
Touchscreen Computer With  
Intel® Core™ Ultra Series 1  
Processors, 3x LAN, 3x USB, 1x  
Type C, 2x COM, 2x DP



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## 1. Document Information

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## 2. Overview

### 2.1 Introduction

AIO-W221-MTL 21.5" Full HD Capacitive IP65 All In One Touchscreen Computer with Intel® Core™ Ultra Series 1 Processors, 3x LAN, 3x USB, 1x Type C, 2x COM, 2x DP

- 21.5" (16:9) Full HD All-in-One Touchscreen Computer
- World Class Certifications for Safety and Reliability: CE/FCC/CB/UL/UKCA/IC
- Front IP65 Rating for protection against water and dust
- Scratch Resistant 7H Glass Hardness
- Versatile Display Outputs, 2x DP++ and LVDS/eDP
- MTBF 50,000 Hours

### 2.2 About AWS IoT Greengrass

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

## 3. Hardware Description

### 3.1 DataSheet

See [AIO-W221-125U Datasheet](#)

### 3.2 Additional Hardware References

Please refer to the [AIO-W221-125U device page](#) for more product details

### 3.3 User Provided Items

Not applicable.

### 3.4 3rd Party Purchasable Items

Not applicable.

## 4. 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

## 5. Set Up Your Hardware

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

## 6. 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>

## 7. 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

## 8. 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.

## 9. 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**

## 10. 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>

### 10.1 Deploy your component

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

## 11. 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](mailto:techsupport@premioinc.com).