



**W480E AI Edge
Inference
Computer**



Premio W480E AI Edge Inference Computer Instructions

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Premio W480E AI Edge Inference Computer



Product Information

Specifications

- Model: RCO-6000-CML-2060S
- Processor: LGA 1200 for Intel 10th Gen Processor
- Chipset: W480E PCH
- Graphics: RTX 2060 Super Integrated

Product Usage Instructions

1. Set up your Development Environment

AWS IoT Greengrass supports both Windows and Linux. Refer to the developer guide for the required tools and setup instructions.

2. Set up your Hardware

Refer to the device user's manual for the hardware setup process.

3. Setup your AWS account and Permissions

Create Resources in AWS IoT and install the AWS Command Line Interface (CLI) on your host machine following the provided instructions.

4. Install AWS IoT Greengrass

Follow the instructions to install AWS IoT Greengrass Core on your device. You can download the latest version or a specific version of the software from the provided links.

5. Create a Hello World Component

You can create, deploy, test, update, and manage a simple component on your device by following the instructions in the provided guide. Upload the component to the cloud as needed.

5.1 Deploy your component

Follow the deployment instructions provided in the guide to deploy your component successfully.

Frequently Asked Questions

- **Q: Can I install AWS IoT Greengrass on any operating system?**
 - A: AWS IoT Greengrass supports both Windows and Linux operating systems. Make sure to check compatibility before installation.
- **Q: How do I set up my AWS account for using AWS IoT Greengrass?**
 - A: Follow the steps outlined in the guide to set up your AWS account, and permissions, and configure the AWS CLI with your account details.

Document Information

- Version 1.0
- Date February 2024
- Description Publish Document

Overview

Introduction

The RCO-6000-CML-2060s Series AI Edge Inference Computer incorporates advanced performance with Intel's 10th Generation Core processors, an advanced GPU accelerator, and expandable, hot-swappable NVMe SSDs with its modular EDGEBoost Nodes. As processing power shifts away from resources in the cloud, deployments in remote and mobile environments require ruggedized systems that can withstand exposure to environmental factors such as dust, debris, shock, vibration, and extreme temperatures. Premio's AI Edge Inference Computers are tested and validated to ensure reliable performance amid deployments in the harshest environmental settings

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 https://premio.blob.core.windows.net/premio/uploads/resource/datasheet/RCO-6000-CML/DS_RCO-6000-CML-2060SPremio.pdf to view the datasheet of RCO- 6000-CML-2060S.

Additional Hardware References

Please refer to the RCO-6000-CML-2060S 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-featuresupport-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-iotgreengrass.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-consolelogin>

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#cliconfigure-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

Refer to the instructions on how to install AWS IoT Greengrass Core:

<https://docs.aws.amazon.com/greengrass/v2/developerguide/install-greengrass-corev2.html>

You can download the latest version of the AWS IoT Greengrass Core from this location:

<https://d2s8p88vqu9w66.cloudfront.net/releases/greengrass-nucleus-latest.zip>

Alternatively, you can download a specific version of the AWS IoT Greengrass Core software from the location below. Replace the version with the version you wish to download:

<https://d2s8p88vqu9w66.cloudfront.net/releases/greengrass-version.zip10> 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-firstcomponent.html>

Deploy your component

Follow the instructions online at Deploy your Component to deploy and verify that your component is running.

Troubleshooting

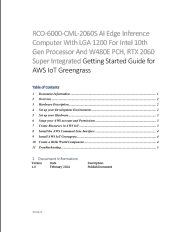
For AWS IoT Greengrass general troubleshooting tips, please refer to:

<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

	<p>Premio W480E AI Edge Inference Computer [pdf] Instructions RCO-6000-CML-2060S, W480E, W480E AI Edge Inference Computer, W480E, AI Edge Inference Computer, Inference Computer, Computer</p>
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References

-  [OpenJDK Download - Corretto - AWS](#)
-  [OpenJDK](#)
- [User Manual](#)

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