Manuals+ — User Manuals Simplified.

premio R680E AI Edge Inference Computer Instructions

RCO-6000-RPL-2-4B7M AI Edge Inference Computer W/ LGA 1700 for Intel 12/13th Gen CPU & R680E PCH, 2x LAN, 6x SDD, 2x PCIe Getting Started Guide for AWS IoT Greengrass

Contents

Document Information

Version	Date	Description
1.0	Dec-23	Publish Document

Overview

2.1 Introduction
The RCO-6000-RPL-2-4B7M Series AI Edge Inference Computer incorporates advanced performance with Intel's 13th 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.

2.2 About AWS IoT Greengrass

To learn more about AWS IoT Greengrass, see **how it works** and **what's new**.

Hardware Description

3.1 DataSheet
Click on this link (**https://premio.blob.core.windows.net/premio/uploads/resource/datasheet/RCO-6000-RPL/DS_RCO-6000-RPL-2-4B7M_Premio.pdf**) to view the datasheet of RCO6000-RPL-2-4B7M.

3.2 Additional Hardware References
Please refer to the RCO-6000-RPL-2-4B7M device page for more product details

3.3 User Provided Items
Not applicable.

3.4 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-consolesignin**

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 version with the version you wish to download:
https://d2s8p88vqu9w66.cloudfront.net/releases/greengrass-version.zip

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**

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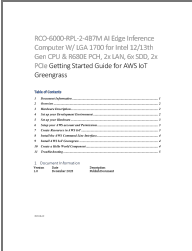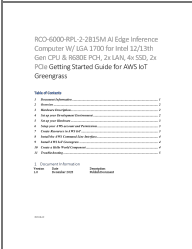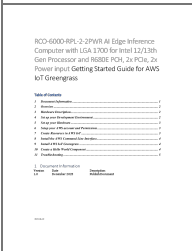
Troubleshooting

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

RCO-6000-RPL-2-4B7M AI Edge Inference Computer W/ LGA 1700 for Intel 12/13th Gen CPU & R680E PCH, 2x LAN, 6x SDD, 2x PCIe Getting Started Guide for AWS IoT Greengrass	**premio R680E AI Edge Inference Computer** [pdf] Instructions R680E AI Edge Inference Computer, R680E, AI Edge Inference Computer, Edge Inference Computer, Inference Computer, Computer
RCO-6000-RPL-2-2B15M AI Edge Inference Computer W/ LGA 1700 for Intel 12/13th Gen CPU & R680E PCH, 2x LAN, 4x SDD, 2x PCIe Getting Started Guide for AWS IoT Greengrass	**premio R680E AI Edge Inference Computer** [pdf] Instructions RCO-6000-RPL-2-2B15M, R680E, R680E AI Edge Inference Computer, R680E, AI Edge Inference Computer, Edge Inference Computer, Inference Computer
RCO-6000-RPL-2-2PWR AI Edge Inference Computer with LGA 1700 for Intel 12/13th Gen Processor and R680E PCH, 2x PCIe, 2x Power Input Getting Started Guide for AWS IoT Greengrass	**premio R680E AI Edge Inference Computer** [pdf] User Guide R680E AI Edge Inference Computer, R680E, AI Edge Inference Computer, Edge Inference Computer, Inference Computer, Computer

References

- **OpenJDK Download - Corretto - AWS**
- **OpenJDK**
- **The GNU C Library - GNU Project - Free Software Foundation**
- **User Manual**