



Premio PC-100-EHL Capacitive Frame Touchscreen Computer User Guide

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User Guide

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PC-100-EHL Capacitive Frame Touchscreen Computer

VIO-219-PC100-EHL 19" XGA Resistive / Capacitive Touch Thin Frame Industrial Touchscreen Computer With Intel® Celeron® J6413
Getting Started Guide for AWS IoT Greengrass

Document Information

Version	Date	Description
1.0	February 2024	Publish Document

Overview

2.1 Introduction

The VIO-219-PC100-EHL uses the PC-100-EHL versatile panel PC module that seamlessly integrates into various industrial environments. Designed with Premio's patented Multi-Mode Design, the PC-100-EHL bundles with Premio's 19" VIO-200

IP65 Industrial Touchscreen Series to create an all-in-one panel PC solution that offers maximum flexibility and modular configurations power by Intel Celeron J6413. The PC-100-EHL ensures the necessary speed and responsiveness needed for many industrial touchscreen applications, including smart agriculture, industrial HMI automation, and more. This modular design allows system integrators the flexibility to mix and match display sizes screen sizes without the added cost of replacing its industrial PC unit.

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/VIO-200-PC100-EHL/DS_VIO-219-PC100-EHL_Premio.pdf) to view the datasheet of VIO-219-PC100-EH.

3.2 Additional Hardware References

Please refer to the VIO-219-PC100-EH 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-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 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

	<p>Premio PC-100-EHL Capacitive Frame Touchscreen Computer [pdf] User Guide</p> <p>PC-100-EHL, VIO-200, PC-100-EHL Capacitive Frame Touchscreen Computer, PC-100-EHL, Capacitive Frame Touchscreen Computer, Frame Touchscreen Computer, Touchscreen Computer, Computer</p>
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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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