

# NYB55 Series

## Getting Started Guide for AWS IoT Greengrass

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### 1 Document information

Version	Date	Description
1.0	May 2024	Publish Document

### 2 Overview

The OMRON NYB(55) Series industrial PCs have been designed to be powerful, reliable, and scalable. They are ideally suited for visualization, data handling/processing, measurement, and control applications.

### 3 Hardware description

#### 3.1 Datasheet

Product Name	Datasheet URL
NYB	<a href="#">Datasheet</a>

## 3.2 Standard kit contents

### Default Packing List

- Power connector
- I/O connector
- Drive bracket for drive mounting
- 4 mounting screws for drive installation
- PCIe card support for PCIe card installation
- PCIe card clip for PCIe card installation

## 3.3 User provided items

Not Applicable.

## 3.4 3<sup>rd</sup> party purchasable items

Not Applicable.

# 4 Set up your development environment

## 4.1 Tools installation (IDEs, Toolchains, SDKs)

Follow the steps in this section to set up a Linux or Windows device to use as your AWS IoT Greengrass core device.

Install the Java runtime, which AWS IoT Greengrass Core software requires to run.

# 5 Set up device hardware

Step 1: Attach a 24V power supply to the IPC(NYB) and turn it on.

Step 2: Execute Windows OOBE, set up Windows, and make it ready for login.

# 6 About AWS IoT Greengrass

To learn more about AWS IoT Greengrass, see [How AWS IoT Greengrass works](#) and [What's new in AWS IoT Greengrass Version 2](#).

# 7 Greengrass prerequisites

Refer to the online documentation detailing the [prerequisites](#) needed for AWS IoT Greengrass.

Follow the instructions in the following sections:

[Step 1: Set up an AWS account](#)

[Step 2: Set up your environment](#)

# 8 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](#)

## 9 Create a “Hello World” component

### 9.1 Create the component on your edge device

Follow the instructions online under the section [Develop and test a component on your device](#) to create a simple component on your device.

### 9.2 Upload the “Hello World” component

Follow the instructions online at [Create your component in the AWS IoT Greengrass service](#) to upload your component to the cloud, where it can be deployed to other devices as needed.

### 9.3 Deploy your component

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

## 10 Troubleshooting

For more information, refer to the online documentation [Troubleshooting Greengrass v2](#). If you have any questions, please contact us at [ipc-support](#) email address.