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SIEMENS BX-56A Base Module



Specifications

Product: SIMATIC Industrial PC SIMATIC IPC BX-56A

• Compatibility: AWS IoT Greengrass

• Compact User Manual included

Product Information

The SIMATIC Industrial PC SIMATIC IPC BX-56A is designed for use with AWS IoT Greengrass, providing a reliable and efficient platform for industrial applications.

Document Information

Document revision history

History

The following editions of these operating instructions have already been published:

Edition	Comment
08/2024	First edition

Overview

• The SIMATIC IPC BX-56A IPCs come with a scalable form factor and performance range.

- Thanks to their modularity and numerous configuration options, they offer a solution for almost every application.
- Automation solutions and production-related data management benefits from the balanced cost-value ratio of this entry level modular device.
- The new performance IPCs with high data availability for reliable production tracing are robustly designed for continuous operation even in the case of highly complex automation tasks.
- In this Getting Started document, you will find information about how to setup AWS IoT Greengrass on an SIMATIC IPC BX-56A running Linux or Windows operating system.

About AWS IoT Greengrass

To learn more about AWS IoT Greengrass, see how it works

- (https://docs.aws.amazon.com/greengrass/v2/developerguide/how-it-works.html) and what's new
- (https://docs.aws.amazon.com/greengrass/v2/developerguide/greengrass-v2-whats-new.html).

Hardware Description

DataSheet

Click on this link (https://support.industry.siemens.com/cs/ww/en/pv/6AG4132-0...-
..../td?dl=en) to view the datasheet of IPC BX-56A.

Standard kit contents

You will find more information about scope of delivered components of your SIMATIC IPC in the operating manual

(https://support.industry.siemens.com/cs/ww/en/view/109972660).

User provided items

Suitable power supply for your SIMATIC IPC. Please refer to operating manual (https://support.industry.siemens.com/cs/ww/en/view/109972660).

3rd party purchasable items

Not applicable.

Additional Hardware References

You will find more information in the operating manual (https://support.industry.siemens.com/cs/ww/en/view/109972660).

Setup your Development Environment

Tools Installation (IDEs, Toolchains, SDKs)

AWS IoT Greengrass supports various operating systems (https://docs.aws.amazon.com/greengrass/v2/developerguide/operating-system-feature-support-matrix.html). Please refer to chapter 8 below for more information about installation of AWS IoT Greengrass.

Prerequisites

It's recommended to use

- Java Runtime Environment (JRE) version 8 or greater
- Java Development Kit (JDK) Amazon Corretto (http://aws.amazon.com/corretto/) or OpenJDK (https://openidk.org/)
- GNU C Library (https://www.gnu.org/software/libc/) (glibc) version 2.25 or greater

Setup device hardware

Please refer to Operating Instructions

(https://support.industry.siemens.com/cs/ww/en/view/109749498) for installing Windows on IPCs. For running AWS IoT Greengrass on Linux please download (https://releases.ubuntu.com/22.04/) and install Ubuntu on IPC BX-56A.

About AWS IoT Greengrass

- To learn more about AWS IoT Greengrass, see How AWS IoT Greengrass works(https://docs.aws.amazon.com/greengrass/v2/developerguide/how-it-works.html)
 and
- What's new in AWS IoT Greengrass Version 2
 (https://docs.aws.amazon.com/greengrass/v2/developerguide/greengrass-v2-whats

new.html).

Greengrass prerequisites

Refer to the online documentation detailing the prerequisites (https://docs.aws.amazon.com/greengrass/v2/developerguide/getting-started-prerequisites.html) needed for AWS IoT Greengrass.

Follow the instructions in the following sections:

- Step 1: Set up an AWS account
 (https://docs.aws.amazon.com/greengrass/v2/developerguide/getting-started-set-up-aws-account.html)
- Step 2: Set up your environment
 (https://docs.aws.amazon.com/greengrass/v2/developerguide/getting-started-set-up-environment.html)

Install AWS IoT Greengrass

Follow the online guide to Install with automatic provisioning (https://docs.aws.amazon.com/greengrass/v2/developerguide/quick-installation.html).

Refer to the instructions in the following steps:

- Set up the device environment
 (https://docs.aws.amazon.com/greengrass/v2/developerguide/quick-installation.html#set-up-device-environment)
- Provide AWS credentials to the device
 (https://docs.aws.amazon.com/greengrass/v2/developerguide/quick-installation.html#provide-installer-aws-credentials)
 . 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 (https://docs.aws.amazon.com/greengrass/v2/developerguide/quick-installation.html#download-greengrass-core-v2)

Install the AWS IoT Greengrass Core software
 (https://docs.aws.amazon.com/greengrass/v2/developerguide/quick-installation.html#run-greengrass-core-v2-installer)

Create a "Hello World" component

Create the component on your edge device

- Create the component on your edge device.
- Follow the instructions online under the section Develop and test a component on your device

(https://docs.aws.amazon.com/greengrass/v2/developerguide/create-first-component.html) to create a simple component on your device.

Upload the "Hello World" component

Follow the instructions online at Create your component in the AWS IoT Greengrass service (https://docs.aws.amazon.com/greengrass/v2/developerguide/upload-first-component.html) to upload your component to the cloud, where it can be deployed to other devices as needed.

Deploy your component

Follow the instructions online at Deploy your component (https://docs.aws.amazon.com/greengrass/v2/developerguide/deploy-first-component.html) to deploy and verify that your component is running.

Troubleshooting

- Please refer to After Sales Information
 (https://support.industry.siemens.com/cs/ww/en/view/109782922) for technical support and more information about repairs and spare parts.
- For more information, also refer to the online documentation Troubleshooting Greengrass v2.

(https://docs.aws.amazon.com/greengrass/v2/developerguide/troubleshooting.html)

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FAQ

- Q: How do I troubleshoot connectivity issues with AWS IoT Greengrass?
 - A: Check your network settings and ensure that the device is properly connected to the internet. Verify the AWS IoT Greengrass configuration settings.
- Q: Can I expand the storage capacity of SIMATIC IPC BX-56A?
 - A: Yes, you can expand the storage capacity by adding compatible external storage devices following the manufacturer's guidelines.

Documents / Resources



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BX-56A Base Module, BX-56A, Base Module, Module

References

- OpenJDK Download Corretto AWS
- Step 6: Deploy your component AWS IoT Greengrass
- What's new in AWS IoT Greengrass Version 2 AWS IoT Greengrass
- How AWS IoT Greengrass works AWS IoT Greengrass
- © Greengrass feature compatibility AWS IoT Greengrass
- Install AWS IoT Greengrass Core software with automatic resource provisioning -AWS IoT Greengrass
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- Install AWS IoT Greengrass Core software with automatic resource provisioning -AWS IoT Greengrass
- Troubleshooting AWS IoT Greengrass V2 AWS IoT Greengrass
- Step 5: Create your component in the AWS IoT Greengrass service AWS IoT Greengrass
- <u>A OpenJDK</u>
- @ Ubuntu 22.04.5 LTS (Jammy Jellyfish)
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