Getting Started Guide

Subject	ADLINK DLAP-411-Orin Getting Started Guide for AWS IoT Greengrass
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DLAP-411-Orin

ADLINK
LEADING EDGE COMPUTING

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Revision History

Revision	Description	Date
1.0	Initial release	2024-05-24

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Brief

This Getting Started Guide provides information on how the abovementioned model(s) can be set up for AWS IoT Greengrass.

Note that this documentation is intended for reference purposes only as there can be variance due to diverse factors and/or applications.

Disclaimer

The information contained herein, including but not limited to product specifications and procedures, is for reference purposes only and is subject to change without notice.

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1. Applicable Operating Systems

Platform	Host	Device
OS version	Ubuntu 22.04	Ubuntu 22.04

2. Overview

The ADLNK DLAP-411-Orin Edge AI Inference Platform is a high-performance platform powered by NVIDIA® Jetson AGX Orin™ and is designed for deployment of AI-powered systems at the edge, providing the computing power needed for demanding AI applications.

2.1. Datasheet

Refer to the DLAP-411-Orin datasheet for more information.

3. Environment Setup

3.1. Tools Installation

You can use any version of AWS IoT Greengrass software based on your chosen operating system. AWS IoT Greengrass 2.6.0 can be installed using manual resource provisioning.

3.2. Other Software Required

- **Java Runtime Environment (JRE) version 8 or later**
  To use Java to develop custom components, you must install a Java Development Kit (JDK), i.e. Amazon Corretto 11 or OpenJDK 11.
- **GNU C Library (glibc) version 2.25 or later**

4. Device Setup

Refer to the DLAP-411-Orin user's manual for detailed information on how to set up the platform.

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5. 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.

6. Greegrass Prerequisites

Refer to the online documentation detailing the prerequisites needed for AWS IoT Greengrass, then follow the instructions in Step 1: Set up an AWS account, and Step 2: Set up your environment.

7. AWS IoT Greengrass Installation

Follow the online guide to Install with automatic provisioning. Then, refer to the instructions in the following steps:

1. Set up the device environment
2. Provide AWS credentials to the device

   For development environments, you can use the option "Use long-term credentials from an IAM User".

   e.g.

   ```
   export AWS_ACCESS_KEY_ID=<the access key id for your user>
   export AWS_SECRET_ACCESS_KEY=<the secret access key for your user>
   ```

3. Download the AWS IoT Greengrass Core software
4. Install the AWS IoT Greengrass Core software

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8. "Hello World" Component Setup

8.1. Creating the Component on Your Device

Follow the instructions online under the section Develop and test a component on your device to create a simple component on your device.

8.2. Uploading 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.

8.3. Deploying Your Component

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

9. Debugging

Visit ADLINK download page for more product information.

10. Troubleshooting

For device support and inquiries, visit the ADLINK support pages below:

- **https://adlinktech.com/en/Askanexpert**
- **https://www.adlinktech.com/en/Medical_Healthcare_Service_and_Support**

For more information on AWS IoT Greengrass, refer to Troubleshooting Greengrass v2.

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