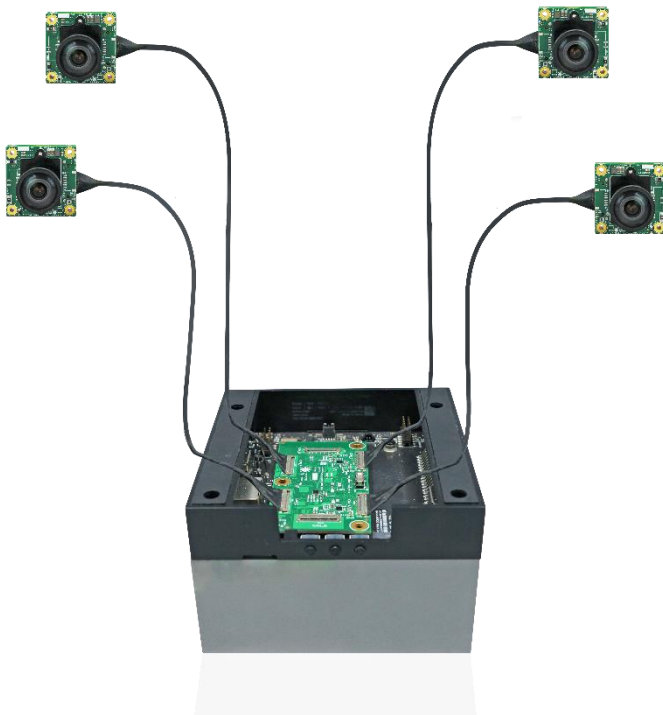


e-CAM56\_CUOAGX

# Release Package Manifest



**e-con Systems**

Think Camera. Think e-con.

Version 1.5

e-con Systems

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# Introduction to e-CAM56\_CUOAGX

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e-CAM56\_CUOAGX is a 5 MP MIPI camera from e-con Systems, a company with over two decades of experience in designing, developing, and manufacturing OEM cameras. It contains one to four cameras in 4-lane mode which are connected to the Jetson AGX Orin™ development kit.

e-CAM56\_CUOAGX requires a custom driver for the Jetson AGX Orin™ development kit. e-con Systems provides the prebuilt driver for this camera along with the camera board. The sample application, eCAM\_argus\_camera provided by e-con Systems is used for demonstrating some of the features of this camera.

This document explains about the directory structure and contents of the release package for the Jetson AGX Orin™ development kit.

# Package Manifest

This section describes the detailed information of package manifest.

The below table lists the top-level directories and files that are created when you expand the e-

**CAM56\_CUOAGX\_JETSON\_XAVIER\_ORIN\_<L4T\_version>\_<release\_date>\_<release\_version>.tar.gz** file from release package of File Transfer Protocol (FTP).

**Table 1: Package Manifest Directories and its Descriptions**

Directory	Description
Application/	Directory containing application source code and dependencies.
Firmware/	Directory containing MCU firmware binary
Kernel/	Directory containing kernel, dtb and module patch files for e-CAM56_CUOAGX
misc/	Directory containing miscellaneous files that supports e-CAM56_CUOAGX
e-CAM56_CUOAGX_<L4T_version>_<Jetpack_version>_JETSON-XAVIER-ORIN_<release_version>.tar.gz	Compressed archive containing required binaries for updating Jetson AGX Orin™.
install_binaries.sh	Install script for installing prebuilt kernel, application binaries and miscellaneous on the Jetson AGX Orin™ development kit.
release_integrity.md5	Encrypted file containing the md5sum of the e-CAM56_CUOAGX archive.

# Overview of Package Manifest Directory

This section describes the detailed information about each directory of the release package.

## Application

The below table lists the directories containing the application executable files and source code required for e-CAM56\_CUOAGX camera on the Jetson AGX Orin™ development kit.

**Table 2: Application Directories and its Descriptions**

Directory	Description
eCAM_argus_camera/Source/eCAM_argus_camera.tar.gz	Archive file containing the eCAM_argus_camera source code for Jetson AGX Orin™.
eCAM_Argus_MultiCamera/Source/eCAM_Argus_MultiCamera.tar.gz	Archive file containing the eCAM_Argus_MultiCamera source code for Jetson AGX Orin™.

## Kernel

The below table lists the directories containing the kernel prebuilt kernel Image file and source code required for e-CAM56\_CUOAGX camera on the Jetson AGX Orin™ development kit.

**Table 3: Kernel Directories and its Descriptions**

Directory	Description
e-CAM56_CUOAGX_JETSON_XAVIER_ORIN_<L4T_version>_dtb.patch	Patch file for the default kernel, device tree and module for the Jetson AGX Orin™ that adds support for e-CAM56_CUOAGX.
e-CAM56_CUOAGX_JETSON_XAVIER_ORIN_<L4T_version>_kernel.patch	
e-CAM56_CUOAGX_JETSON_XAVIER_ORIN_<L4T_version>_module.patch	

## Misc

The below table lists the directories containing the miscellaneous files that are required to support e-CAM56\_CUOAGX on the Jetson AGX Orin™ development kit.

**Table 4: Rootfs Directories and its Descriptions**

Directory	Description
camera_overrides_jetson-orin.isp	The overrides file tuned to meet the highest quality for e-CAM56_CUOAGX in Jetson AGX Orin™.
max-isp-vi-clks.sh	Helper shell script to run NVIDIA® VI and ISP blocks in full performance mode.
Libnvargus.so Libnvargus_socketserver.so Libnvargus_socketclient.so Libnvscf.so Libnvfusacap.so	These files are required to update the nvscf library files
modules	Module file to load kernel modules at boot time
Camera-rtcpu-t234-rce_35_4_1.img	Deskew firmware file

# Glossary

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**CMOS:** Complementary Metal Oxide Semiconductor.

**DTB:** Device Tree Blob.

**FTP:** File Transfer Protocol.

**ISP:** Image Signal Processor.

**MIPI:** Mobile Industry Processor Interface.



# Support

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## **Contact Us**

If you need any support on e-CAM56\_CUOAGX product, please contact us using the Live Chat option available on our website - <https://www.e-consystems.com/>

## **Creating a Ticket**

If you need to create a ticket for any type of issue, please visit the ticketing page on our website - <https://www.e-consystems.com/create-ticket.asp>

## **RMA**

To know about our Return Material Authorization (RMA) policy, please visit the RMA Policy page on our website - <https://www.e-consystems.com/RMA-Policy.asp>

## **General Product Warranty Terms**

To know about our General Product Warranty Terms, please visit the General Warranty Terms page on our website - <https://www.e-consystems.com/warranty.asp>

## Revision History

Rev	Date	Description	Author
1.0	22-Aug-2023	Initial draft	Camera Dev Team
1.1	19-Oct-2023	Updated to L4T35.4.1. Also, removed eCAM_Argus_MultiCamera application files	Camera Dev Team
1.2	31-Oct-2023	Updated the resolution to 5MP	Camera Dev Team
1.3	30-Jan-2024	Updated the misc folder details	Camera Dev Team
1.4	11-Mar-2024	Removed 2-lane support and added Firmware directory	Camera Dev Team
1.5	22-Mar-2024	Updated product image in home page	Camera Dev Team