e-CAM25_CUONX

Release Package Manifest

Contents

Introduction to e-CAM25_CUONX

e-CAM25_CUONX is a 2.3 MP MIPI CSI-2 camera from e-con Systems, a company with over two decades of experience in designing, developing, and manufacturing OEM cameras. It is a new MIPI camera board which helps to interface AR0234 sensor in either 4-lane mode or 2-lane mode depending upon the port's lane support and the user-defined configuration to the Jetson Orin™ Nano and Orin NX™. The prebuilt driver for this camera along with the camera board is provided by e-con Systems.

This document explains the directories of package manifest and the contents of release package for Jetson Orin NX™/Orin Nano™ 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 extract the **e-CAM25_CUONX_JETSON_ONX_ONANO_<L4T_version>_<release_date>_<release_version>.tar.gz** release package.

Table 1: Package Manifest Directory Contents and its Description

Directory Contents	Description
Application/	Directory containing application source code and dependencies
Kernel/	Directory containing patch files for e-CAM25_CUONX.
e-CAM25_CUONX_<L4T_version>_<JP_VERSION>_JETSON-ONX-ONANO_<release_version>.tar.gz	Compressed archive containing the required binaries for updating Jetson Orin NX™ and Jetson Orin Nano™.
install_binaries.sh	Install script for installing pre-built kernel, application binaries and miscellaneous on the Jetson Orin NX™/Orin Nano™.
release_integrity.md5	Encrypted file containing the md5sum of the e-CAM25_CUONX archive.

Overview of Package Manifest Directory

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

Application

The below table lists the directories containing the application source code and dependencies required for e-CAM25_CUONX camera on the Jetson Orin NX™/Orin Nano™ development kit.

Table 2: Application Directory Contents and its Description

Directory Contents	Description
ecam_tk1_guvcview/Source/	Directory containing application related source code for Jetson Orin NX™/Orin Nano™.
ecam_tk1_guvcview/Source/ ecam_tk1_guvcview_dependency.tar.gz	Archive file containing application dependency for Jetson Orin NX™/Orin Nano™.
ecam_tk1_guvcview/Source/ e-CAM_TK1_guvcview-src-1.7.2.tar.gz	Archive file containing ecam_tk1_guvcview application source code for Jetson Orin NX™/Orin Nano™.

Kernel

The below table lists the patch files required for e-CAM25_CUONX camera on the Jetson Orin NX™/Orin Nano™ development kit.

Table 3: Kernel Directory Contents and its Description

Directory Contents	Description
e-CAM25_CUONX_JETSON_ONX_ONANO_<L4T_version>_oot.patch	The patch file related to the default nvidia-oot for Jetson Orin NX™/Orin Nano™ that adds support for e-CAM25_CUONX.
e-CAM25_CUONX_JETSON_ONX_ONANO_<L4T_version>_dtb.patch	The patch file related to the default device tree for Jetson Orin NX™/Orin Nano™ that adds support for e-CAM25_CUONX.
e-CAM25_CUONX_JETSON_ONX_ONANO_<L4T_version>_module.patch	The patch file for e-con e-CAM25_CUONX sensor driver.

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DTB: Device Tree Blob.

MIPI: Mobile Industry Processor Interface.

Contact Us

If you need any support on e-CAM25_CUONX 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	18-Apr-2023	Initial draft	Camera Dev Team
1.1	10-Nov-2023	Updated to L4T35.4.1 and supported 2 lane configuration	Camera Dev Team
1.2	24-May-2024	Added v4l2-compliance to misc for L4T36.3.0	Camera Dev Team
1.3	23-Jan-2025	Updated for L4T36.4.0	Camera Dev Team