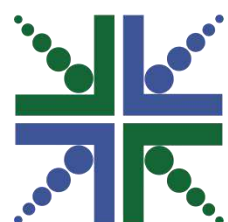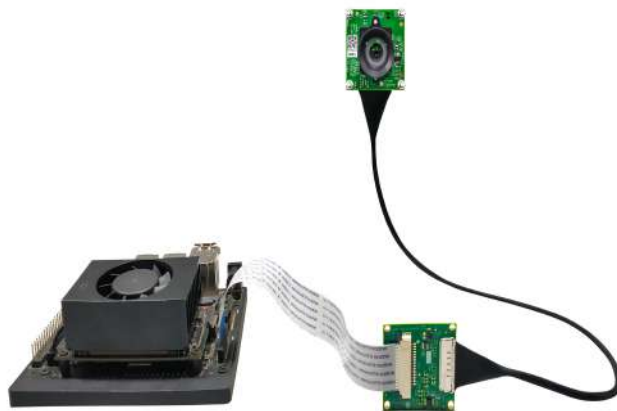# e-CAM23_CUNX

Release Package Manifest

e-con Systems

Your Product Development Partner

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e-con Systems

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Disclaimer

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Contents

e-con Systems is a leading Embedded Product Design Services Company which specializes in advanced camera solutions. e-CAM23_CUNX is a new MIPI camera board which helps to connect one or two OV2311 camera modules in 2-lane mode in NVIDIA®Jetson Nano/ Xavier NX™ with S-mount (also known as M12 board lens) lens holder. The S-mount is one of the most commonly used small form-factor lens mounts for board cameras. Each e-CAM23_CUNX camera contains an 1/2.9" OV2311 CMOS image sensor from OmniVision® and is interfaced to the J1 and J9 connectors on the Jetson Xavier NX ™ and J13 and J49 connectors in Jetson Nano™ development board.

e-CAM23_CUNX has a MIPI camera and it requires a custom driver for the Jetson Nano/ Xavier NX™ development kit. e-con Systems provides the prebuilt driver for this camera along with the camera board.

This document explains about the directory structure and contents of the release package for Jetson Nano/Xavier NX™ development kits.

Package Manifest

This section describes the detailed information of package manifest.

The following table lists the top-level directories and files that are created when you extract the **e-CAM23_CUNX_JETSON_NX_XAVIER_<L4T_version>_<release_date>_<release_version>.tar.gz** release package.

Table 1: Package Manifest Directories and its Descriptions

Directory	Description
Kernel/	Directory containing kernel patch file for e-CAM23_CUNX.
misc/	Directory containing miscellaneous files that supports e-CAM23_CUNX.
e-CAM23_CUNX _<L4T_version>_<Jetpack_version> _<release_version>.tar.gz	Compressed archive containing required binaries for updating Jetson Nano/ Xavier NX^{TM}.
install_binaries_<version>.sh	Install script for installing prebuilt kernel, application binaries and miscellaneous on the Jetson Nano™ /Xavier NX^{TM} development kit.
release_integrity.md5	Encrypted file containing the md5sum of the e-CAM23_CUNX _<L4T_version>_<Jetpack_version> _<release_version>.tar.gz archive.
Application/	Directory containing the Source of the sample application.

Overview of Package Manifest Directory

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

Kernel

The following table lists the directories containing the kernel prebuilt binaries and source code required for e-CAM23_CUNX camera on the Jetson Nano/ Xavier NX™ development kit.

Table 3: Kernel Directories and its Descriptions

Directory	Description
e-CAM23_CUNX_JETSON_XAVIER_NX_L4T32.4.4_kernel.patch	Patch file related to the default kernel, device-tree and camera module for Jetson Xavier NX™ that adds support for e-CAM23_CUNX.
e-CAM23_CUNX_JETSON_XAVIER_NX_L4T32.4.4_dtb.patch	
e-CAM23_CUNX_JETSON_XAVIER_NX_L4T32.4.4_module.patch	
e-CAM23_CUNANO_JETSON_XAVIER_NANO_L4T32.4.4_kernel.patch	Patch file related to the default kernel, device-tree and camera module for Jetson Nano™ that adds support for e-CAM23_CUNX.
e-CAM23_CUNANO_JETSON_XAVIER_NANO_L4T32.4.4_dtb.patch	
e-CAM23_CUNANO_JETSON_XAVIER_NANO_L4T32.4.4_module.patch	

misc

The following table lists the directories containing the miscellaneous files that are required to support e-CAM23_CUNX on the Jetson Nano/ Xavier NX™ development kit.

Table 4: Misc Directories and its Descriptions

Directory	Description
modules	File related to load the module on boot.
xorg.conf.t194_ref	File for reserving the display bandwidth.

Glossary

CMOS: Complementary Metal Oxide Semiconductor.

DTB: Device Tree Blob.

GMSL: Gigabit Multimedia Serial Link.

ISP: Image Signal Processor.

L4T: Linux for Tegra.

Contact Us

If you need any support on e-CAM23_CUNX 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	15-Feb-2021	Initial draft	Application Engineering Team