

### **Release Note**

Project Name	OnSemiCamModule_96B	Project Code	OT_U21_431
Release Name/	4.0	Release Date	01/19/2022
Number			
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### 1. Release Description

The Software release version (v4.0) is based on NXP LF5.10.52\_2.1.0 release from eInfochips. It is to be used with Thor96 Development board. This release is based on imx-5.10.52-2.1.0.xml NXP release with adaptations and customizations from eInfochips for use with Thor96 Development platform.

#### 2. Release Details

This release consists of the following:

- Pre-built images
- Documentation
- Build and source code setup script
- Readme
- Yocto recipes and patches
- Test case report

This release includes the following references and additional information:

- ei\_OnSemiCamModule\_96B\_Thor96\_ReleaseNote.pdf Provides release information and supporting features
- ei\_User\_Guide\_IMX8M\_Thor96\_L5\_10\_Rel\_4\_0.pdf Provides the information on installing release on Thor96 development board and steps to test each peripheral on board
- ML\_Demos\_Guide\_iMX8\_L5\_10\_Rel\_4\_0.pdf Provides information to test machine learning demos on Thor96 development board
- ei\_OnSemiCamModule\_96B\_Thor96\_Testcase.xls Test case report of Thor96 firmware release

#### a. Software Package Deliverables

Download or clone release **I.IMX8** Thor96, it contains following:

## b. For Product Delivery

- i) Shipping Address:
- ii) If customer's shipment account to be used, provide details  $\mathsf{N}.\mathsf{A}$



## 3. Release Contents

# a. Release Feature Description

Sr. No.	Feature Description	Feature or Change implemented/ Bug Resolved	Ref ID
1	Ethernet Demo	Feature	
2	HDMI1 Demo	Feature	
3	HDMI2 Demo	Feature	
4	Dual Display Demo	Feature	
5	Camera Demo	Feature	
6	Audio Codec Demo	Feature	
7	LTE Demo	Feature	
8	USB Hub Demo	Feature	
9	USB OTG as devices	Feature	
10	USB OTG as host	Feature	
11	Bluetooth	Feature	
12	EEPROM	Feature	
13	USER LED	Feature	
14	Low Power Expansion GPIO	Feature	
15	NOR Flash memory Demo	Feature	
16	Wi-Fi Demo	Feature	
17	CAN Interface Demo	Feature	
18	A2B Demo	Feature	
19	Zigbee Demo	Feature	
21	QT Chemical Plant demo	Feature	
22	QT Video HMI application demo	Feature	
23	ML and ARM NN Demos	Feature	

## b. Known Issues

No known issue in this release.

# c. For Product Delivery

NA

# d. Applicable Accessories

NΑ

## e. List of Documents Delivered/ Affected

Sr.	Document Name	<b>Current Version</b>
No.		
1	ei_User_Guide_IMX8M_Thor96_L5_10_Rel_4_0.pdf	4.0
2	ML_Demos_Guide_iMX8_L5_10_Rel_4_0.pdf	4.0
3	ei_OnSemiCamModule_96B_Thor96_TestCases.xls	1.0



#### 4. Software and Hardware Tool Used

- Thor96 Development board
- SD Card
- 12V/5A Power adapter
- USB to UART Serial console cable
- Ethernet cable
- HDMI Display
- D3 OV5640 Mezzanine board
- Handsfree with Mic
- USB Pen Drive
- USB OTG cable
- CAN Cable
- LTE Mezzanine board
- Zigbee based door sensor

### 5. Dependencies and Restrictions

• Mezzanine DSI display board is not available on 96boards.org so it is not validated

### 6. Installation notes

Refer to the Section 2.3 and Section 2.4 of ei\_User\_Guide\_IMX8M\_Thor96\_L5\_10\_Rel\_4\_0.pdf to flash firmware image to SD Card for Thor96 board.

## 7. Test Environment

Refer to the ei\_OnSemiCamModule\_96B\_Thor96\_TestCases.xls for all the Thor96 Test cases.

## 8. Recommendations for System Handling

Thor 96 boards have to be used in ESD safe environment.