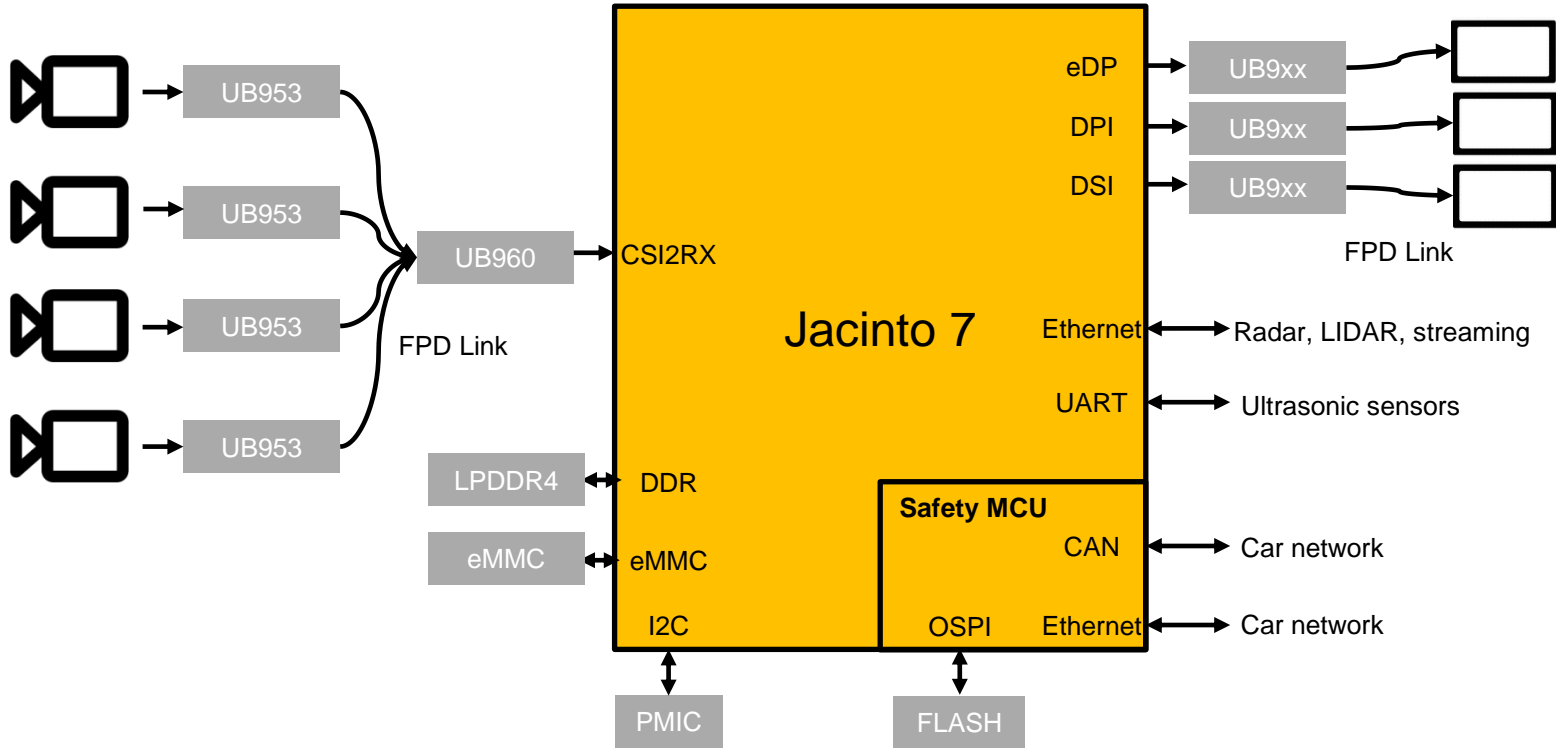
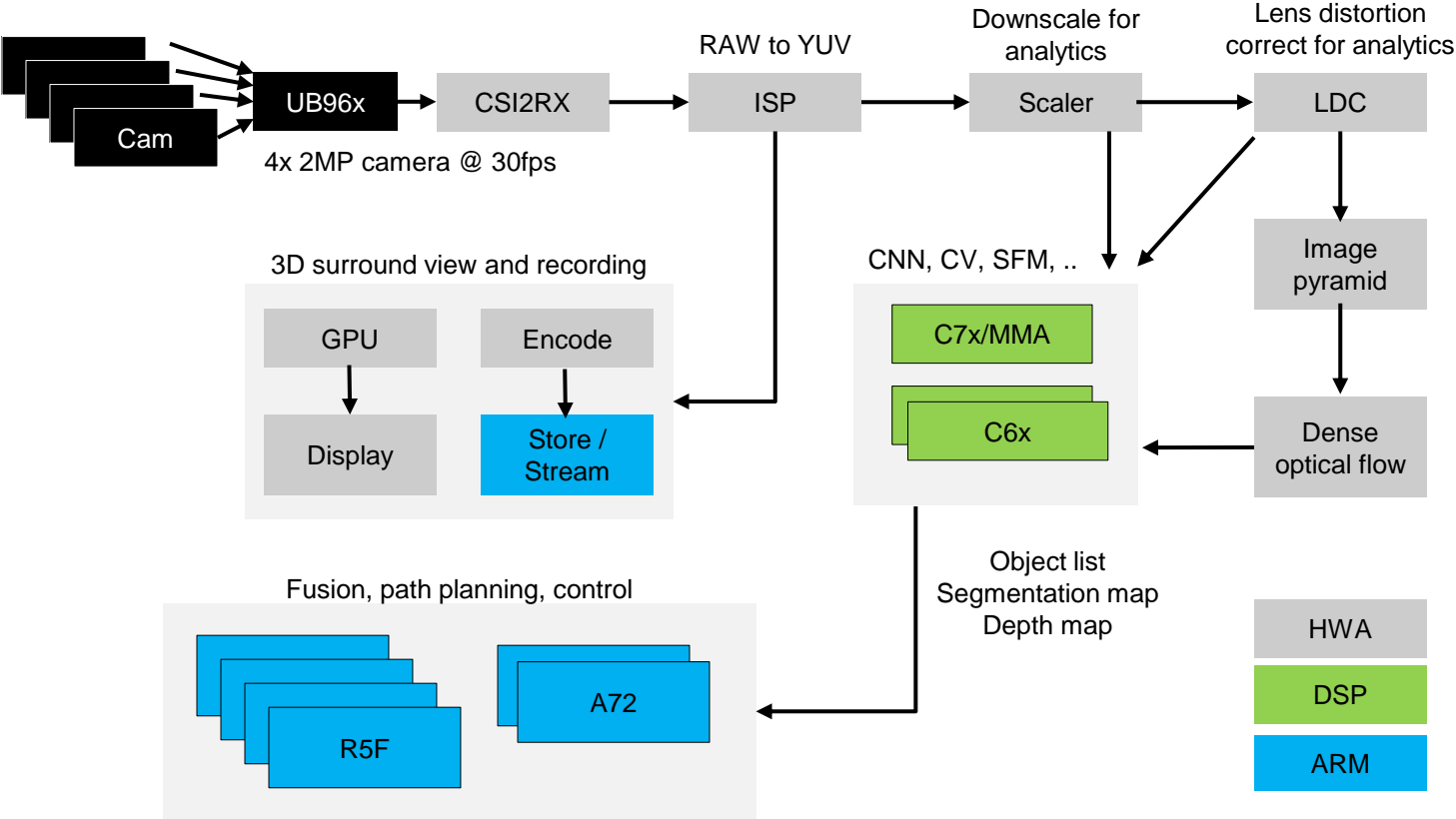


**Jacinto™ 7 processors:
Creating ADAS applications with
Processor SDK Automotive**

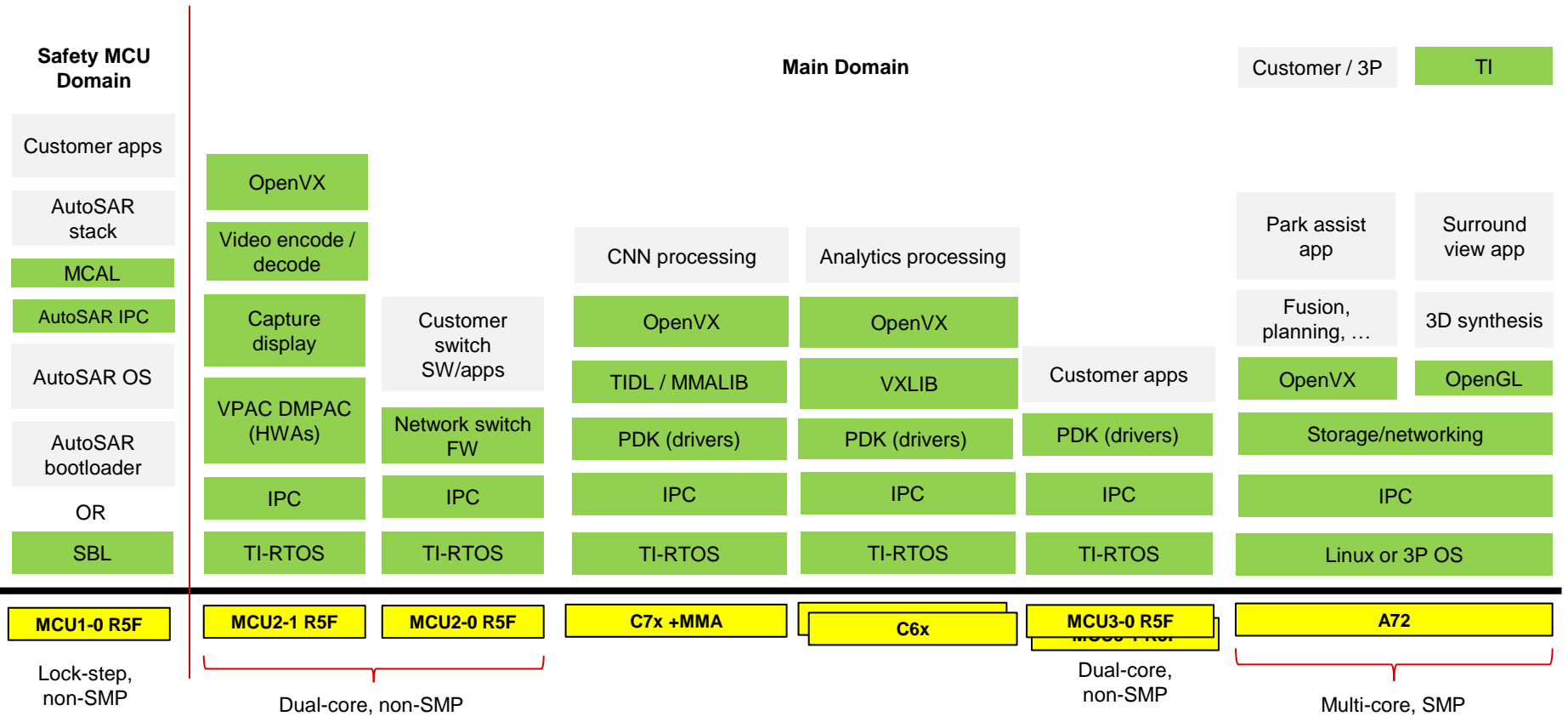
Surround view park assist system



Surround view park assist data flow



Surround view park assist software



2.1. Build from Source

psdk-rtos-auto-j7-xx-xx-xx-xx/index.html

3D Surround View Application

Auto Valet Parking Application 2

Introduction

This application shows a demo of auto valet parking application which runs multiple deep learning segmentation on multiple input channels such as front, right and left cameras. The demo takes multiple input channels. The input is resized using a multi-scalar hardware (MSC) to 768x384 resolution for detection and vehicle detection. The same resized input is provided to a semantic segmentation running on C7x DSP. The output of TIDL is then post-processed on another C66 DSP which selects a sub-set of outputs for display which is rendered using DSS driver.

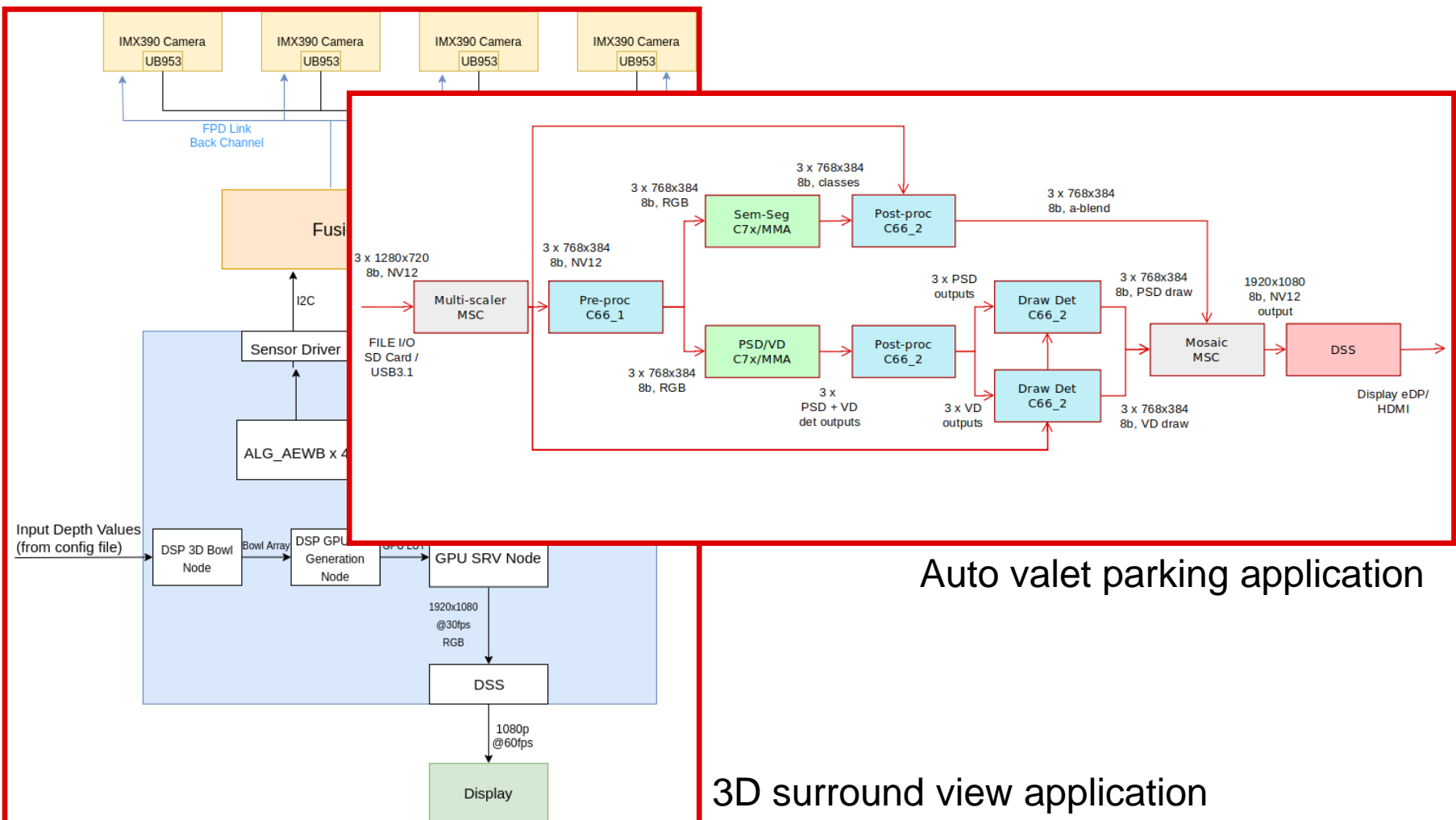
Note

See also [Datasheet](#)

Supported platforms

Platform	Linux x86_64	Linux+RTOS mode	SoC
Support	YES	YES	J721e

Data flow



Auto valet parking application

3D surround view application

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2.1. Build from Source

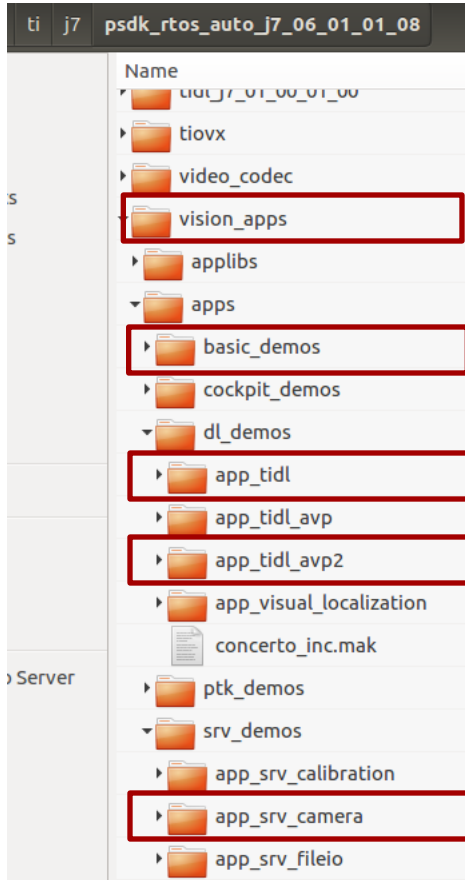
2.2. Running Out of the Box Demos

Build and Run

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1. **Build Environment Setup**
2. **Build Instructions**
3. **Run Instructions**
4. **Trouble shooting build and run errors**



Simple camera, display, OpenGL applications

Simple TIDL / CNN application

Auto valet parking application

3D surround view application

For more information

- Download Processor SDK Automotive for Jacinto 7 processors:
<http://www.ti.com/tool/PROCESSOR-SDK-DRA8X-TDA4X>
- Processor SDK Linux Automotive (PSDKLA) User Guide:
[\\${PSDKRA_INSTALL_PATH}/docs/linux/index.html](#)
- Processor SDK RTOS Automotive (PSDKRA) User Guide:
[\\${PSDKRA_INSTALL_PATH}/index.html](#)
- Order the TDA4VMx evaluation module: <http://www.ti.com/tool/TDA4VMXEVM>
- Order the DRA829Vx evaluation module: <http://www.ti.com/tool/DRA829VXEVM>
- For additional questions, refer to the E2E Community Forums:
<https://e2e.ti.com/support/processors/f/791>



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