

# DesignCore™ Camera Mezzanine Board OV5640 Quick Start Guide

#### 1.0 Product Overview

The DesignCore™ Camera Mezzanine Board is paired with a 5MP micro camera module (OV5640) to enable rapid development of embedded vision applications.

Direct MIPI CSI-2 access to camera data allows more realistic evaluation of embedded vision designs. Direct access eliminates the need to decode USB or Ethernet protocols, resulting in lower power and higher performance.

The kit includes demonstration software running Linux to display 1080p video via HDMI. It is ideal for algorithm development, end application development, and evaluation of image sensors and optics.



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#### 2.0 What's in the Box

Identify all the parts listed in Table 1 (below):

Quantity	Part Number	Description
1	D3 CAMERA MEZZ OV5640	DesignCore™ Camera Mezzanine Board OV5640
1	LI-OV5640-MIPI-AF	OV5640 Camera Module

**Table 1: Kit contents** 

### 3.0 Get Started

All instructions, binaries, source code, and troubleshooting guide are available on D3 Engineering's GitHub site. The DesignCore™ Camera Mezzanine Board currently supports the DragonBoard™ 410c by Arrow Electronics. Reference schematics for the Mezzanine Board are provided in the following section of this Quick Start Guide.

https://github.com/D3Engineering/410c camera support/wiki

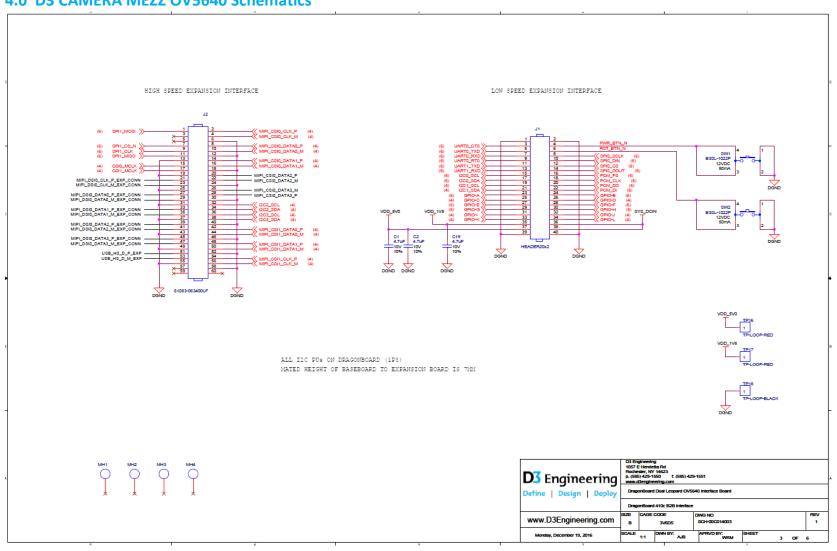


D3Engineering/410c camera support

github.com

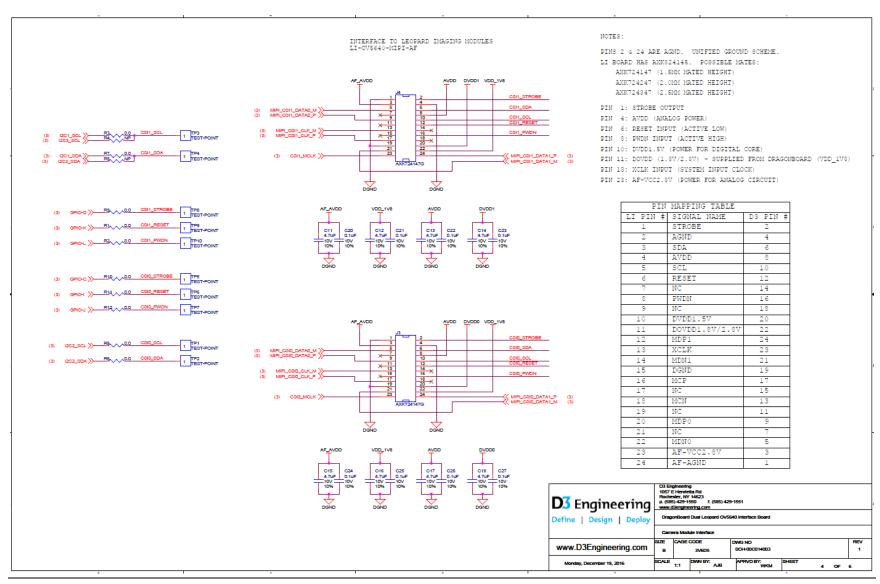
410c\_camera\_support - Example scripts, applications, and binaries for the 410c camera.

## 4.0 D3 CAMERA MEZZ OV5640 Schematics



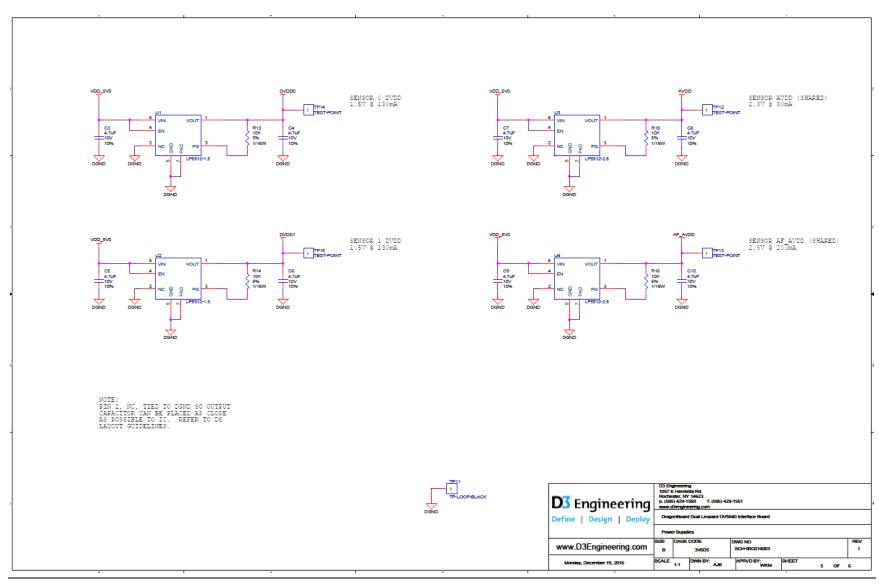
# **D3** Engineering

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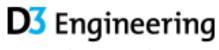


Version 1.0 ■ Release Date: May 10, 2017

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