TIDA-00262 – Optimized Automotive Camera Module
Quick-Start Guide

The TIDA-00262 board can be brought up and running quite quickly, provided the user has the correct tools. The following are the hardware requirements for demonstrating the board’s features:
- TIDA-00262 board, including lens and lens housing
- Rosenberger Fakra coax cable (with correct mating for connector)
- TIDA-00162 Multi-Deserializer board*
- Xilinx SP605 evaluation kit*
- USB-mini cable, DVI cable, DVI monitor
- Computer
*The TIDA-00162 +SP605 combination could possibly be replaced with another DS90UB914A + Host system, but would require some extra development.

The user will also need to install two pieces of software:
- PuTTY or other serial terminal interface
- Silicon Labs USB-to-UART driver for Xilinx board found [here](#)

After installing the required software and getting the materials together, we need to put the hardware setup together:
- Plug the power adapter, USB cable, and DVI cable into the Xilinx board
- Plug the power into the wall, USB cable to your PC, and DVI cable to your monitor
- Plug the TIDA-00162 board into the Xilinx board header J2, as pictured below. It is also best to place something under the hanging edge of the TIDA-00162 board for support.

- Plug one end of the Rosenberger Fakra cable into channel one of the TIDA-00162 board (as shown above), and plug the other end into the TIDA-00262 board.
The hardware setup should now be complete. With the monitor and PC turned on, we can begin the software setup:

- Open up PuTTY, and it should open to the Configuration window
- Open your systems Device Manager, look under “Ports (COM & LPT)”, and find the Silicon Labs part, as seen below:

![Device Manager screenshot](image1)

- Set the “Connection Type” to Serial, “Speed” parameter to 115200 (baud), and “Serial Line” to whatever COM port you found in the Device Manager (in our case, COM5)
- Click “Open”
- Press SW6 on the Xilinx board to reset the system, and a menu should appear on the terminal:

![Terminal screenshot](image2)

- Enter ‘1’, and then ‘1’ again
- The terminal should output some status information as the SerDes devices and Imager are configured. After a few seconds an image should appear on the monitor. Adjust the lens on the TIDA-00262 board to focus the image.
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