Features

Applications:

FPGA frame grabber
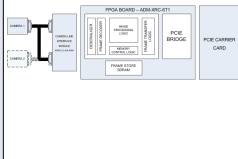Video Stream Processor

Target Devices:

Xilinx Virtex-6:   SX315T (FFG1759)

Memory:

SDRAM - 2GByte in 4 independent banks of DDR3 SDRAM @ 800MT/s (32-bit wide so 3.2GB/s)

Front Connector I/O:

Full Cameralink interface

Summary

The ADA-PCIE-CLINK6V provides an out of the box FPGA based PCIe frame grabber. Included in the kit is the source code for the FPGA designs and software, so that they may be customised to suit the exact needs of the end application.

The provided FPGA designs implement a simple frame grabber compatible with acquiring data from Camera Link camera(s). These designs can be used as a starting point to perform image/video processing tasks such as filtering, format conversion, or compression. The FPGA designs are also extendable to perform analysis of the input image stream(s) on the FPGA card, and may also be used to implement a control system reacting to the input image stream(s).

Specification

Product Name	ADA-PCIE-CLINK6V
Target Devices	Xilinx Virtex-6 - SX315T (FFG1759)
Host I/F	PCI EXPRESS
Memory	**SDRAM** - 2GByte in 4 independent banks of DDR3 SDRAM @ 800MT/s (32-bit wide so 3.2GB/s)
Front I/O	**Camera Link Interface:** Full Cameralink interface connector = 2xminiMDR-26
Special Functions	ADM-XRC-6T1 with Virtex-6 SX315 FPGA and 2.0 GiBytes of DDR3 XRM-CLINK-MINI to provide Camera Link IO to FPGA ADC-CLINK-XMC PCIE Gen 2.0 carrier for ADM-XRC-6T1
Software	API including source code for FPGA based frame grabber Example application for capturing images, serial communications with camera(s), and controlling camera(s) CC lines FPGA frame grabber source code
Environmental	**Temperature:** Air cooled option Operating Temperature 0° to +55°C† † - It is essential that sufficient air-cooling is provided, if thermal monitoring is provided on board then this should be used to shut the device down if it starts to overheat in order to reduce the possiblity of damaging the devices. **EMC:** FCC 47CFR Part 2 EN55022 Equipment Class B

Ordering Codes

ADA-PCIE-CLINK6V