PCIe-CPL64

2-CH PCI Express® PoCL™ Frame Grabber

ADLINK
GREEN
RoHS Compliant

Overview

PCIe-CPL64 is a PoCL (Power over Camera Link®) frame grabber that is based on the PCI Express® x4 interface, and supports two-channel Camera Link "base" configurations, multi-tap area and line scan cameras. The PCIe-CPL64 frame grabber strikes a perfect balance between performance and cost. It is capable of simultaneously image acquisition from two completely independent Camera Link® base configuration cameras, and supports image transfers rates up to 512 MB/s.

PoCL Technology™

The PoCL (Power over Camera Link®) standard allows the camera link cable to supply power to the camera through the Camera Link connector without losing backward compatibility with the previous Camera Link® standard, this solution is particularly suitable for a small camera.

Benefits of PoCL™

- Easy installation
- Reduce wiring (Single cable for digital I/F, and power)
- Reduce camera size

Grayscale Camera | Color Camera | Digital | PCI EXPRESS® | PoCL SafePower

Features

- ■ **PCI Express® x4 compliant**
- ■ **Supports 2-CH Camera Link® "base" configuration**
- ■ **Acquisition pixel clock rates up to 85 MHz**
- ■ **PoCL compliant with auto detection**
- ■ **128 MB of 200 MHz DDR SDRAM for acquisition**
- ■ **4 TTL digital input/output, and 2 trigger Input**
- ■ **Supports 64-bit memory addressing**
- ■ **Two serial communication ports**

Applications

- ■ PCB/FPD/Wafer/Solar Cell surface inspections
- ■ Medical research instrumentations

Software Support

- ■ Windows® Platform
  - Available for Windows® Vista (64/32-bit)/XP

- ■ CamCreator™
  - CamCreator assists developers in quickly evaluating initial tests and functions.

Ordering Information

- ■ **PCIe-CPL64**
  2-CH PCI Express® x4 PoCL frame grabber

Accessories

Cabling

- ■ Camera Link Cable
  5 M, robot type

Specifications

▪ Video Input	Camera Link® LVDS deferential signals
	Dual Base Configuration: Using two MDR26 pins connectors
	Maximum camera link data rate: 85 MHz
	Supports PoCL and standard Camera Link interface and auto detect
▪ Camera Control	LVDS camera control: CC1 to CC4 control signal in two MDR26 pins connectors
▪ External Signal Input	External RS422 level A, B, Z phase deferential signal for encoder input
	Two channels TTL level Line/Area trigger input
	Two channels TTL level Line trigger start input
	Two channels TTL level Exposure output
	Line trigger bypass output (encoder mode only)
	Four channels Digital input , Four channels Digital output
▪ Power over Camera Link® (PoCL)	Power line output per channel : DC +12 V, Max. 1 A
	Over-current Protection function, auto detect non-PoCL cable or PoCL camera connected.
▪ Form Factor	PCI Express® x4 compliant
▪ Dimensions	167.65 x 111.15 mm (W x L)
▪ Operating Environment	Temperature: 0˚C to +50˚C
	Humidity: 5% to 90% RHNC
▪ Storage Environment	Temperature: 0˚C to +70˚C
	Humidity: 0 to 95% RHNC
▪ Power Requirements	+12 V max 0.5 A, +3.3 V max 1.6 A