

CPL64 Base

I-CH Base Configuration PoCL Frame Grabber



NEW



Features

- PCI Express® x4 compliant
- Supports one-channel “base” Camera Link® configuration
- Acquisition pixel clock rates up to 85 MHz
- PoCL (Power over Camera Link®) safe power compliant with auto detection
- Supports 64-bits memory addressing
- One serial communication port

Applications

- PCB/LED/Solar Cell surface inspections
- Medical imaging

Software Support

- **Windows® Platform**
 - Available for Windows® XP/Vista/7 (32/64 bit)
- **CamCreator™**
 - CamCreator assists developers in quickly evaluating initial tests and functions

Introduction

ADLINK's CPL64 Base is a Camera Link® frame grabber based on the PCI Express® x4 interface and supports one channel base configuration, multi-tap area and line scan color and monochrome camera Link cameras.

ADLINK's CPL64 Base delivers high resolution/speed images to medical imaging and machine vision applications. Equipped with an FPGA (Field Programmable Gate Array) and 128 MB memory buffer, the CPL64 Base provides Bayer to RGB color conversion, lookup tables, and spatial corrections to stream images to the host PC without any additional CPU loading.

Specifications

■ Form Factor	PCI Express® x4 compliant
■ Video Input	Camera Link® LVDS differential signals
	One Base configuration: Using one MDR26 pin connector
	Maximum camera link data rate: 85 MHz
■ Camera Control	LVDS camera control: CC1 to CC4 control signal in a MDR26 pin connector
■ External Signal Input	External RS422 level AB phase differential signal for encoder input
	1 channel TTL level Line/Area trigger input
	1 channel TTL level Line trigger start input
	1 channel TTL level exposure output
	Line trigger bypass output (encoder mode only)
	3 channels digital input; 3 channels digital output
■ Power over Camera Link® (PoCL)	Power line output per channel : DC +12 V max @ 1 A Over-current protection function, auto detects when non-PoCL cable or PoCL camera connected
■ Operating Environment	Temperature: 0°C to +50°C
	Humidity: 0 to 95% RHNC
■ Storage Environment	Temperature: 0°C to +70°C
	Humidity: 0 to 95% RHNC
■ Power Requirements	+12 V max @ 1 A
	+3.3 V max @ 2A
■ Dimensions	167.65 mm x 111.15 mm (W x L)

Ordering Information

- **CPL64 Base**
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Accessories

Cabling

- **PoCL Cable**
5 M, Power over Camera Link cable
- **Camera Link Cable**
5 M, robot type