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PMC DV C-Link

PMC digital video ("no A" series) Camera Link interface



Description

The PMC DV C-Link is a PMC Camera Link interface that provides uncompressed image capture for digital video. It has one MDR26 connector to support one base-mode camera.

The board fits in any PMC bus. Images of any resolution are captured and displayed in real time, via DMA to the host computer; speed, resolution, and buffers are limited only by host bandwidth and memory.

Line and frame triggering are supported over camera control lines.

External triggering is enabled by the provided Berg connector or the optional front panel with Kings connector.

Provided with the board are drivers for supported operating systems and a software development kit that includes C language libraries, examples, utilities, image capture and display GUI, camera configuration files, and Camera Link standard DLL for camera control.

Features

- Camera Link interface fits in a PMC bus
- Supports one base-mode camera
- Catpures and displays images in real time, via DMA to host computer
- Provides onboard region-of-interest control
- Supports line and frame triggering over camera control lines
- Supports data rates up to 220 MB/s, as supported by host

Applications

- Astronomy / biology / microscopy
- Aerial mapping / traffic systems
- Commercial film / multimedia
- Medical and nuclear imaging
- Remote scientific monitoring
- Manufacturing / inspection
- Machine vision / robotics
- Security / surveillance
- Scanning / archiving

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Specifications

Memory	FIFOs for up to several lines of data; no frame memory	
Data Rates	Peak / typical	Up to 220 MB/s / 190 MB/s (or maximum supported by host)
Data Format (I/O)	Camera Link	
Camera Link Compliance	Modes Pixel clock rate Serial CC1 - CC4 Connector	Base — common configurations 20–85 MHz Via API or serial DLL (9600 to 115,200 baud) Discretely programmable for steady-state, trigger, and timed pulse One MDR26 for data and control
PCI Compliance	PCI version Direct memory access (DMA) Clock rate / data width	PCI 2.3 Yes 66 MHz / 32 bits
PMC Compliance	P1386.1	
Noise	0 dB	
MTBF	Estimated at 200,000 hours	
Triggering	Via CC lines, or externally via connector (opto-coupled Berg or optional front panel — mate to Kings 1075-1)	
Connectors	One MDR26 Camera Link One opto-coupled Berg One optional front panel Kings	For data and control For external triggering For external triggering
Cabling	Cabling is purchased separately; consult EDT foroptions.	
Physical	Weight Dimensions	2.9 oz. 6.0 x 2.9 in.
Environmental	Temperature (operating / non-operating) Humidity (operating / non-operating)	10° to 40° C (extended -40° to 60° C, 33 MHz bus only) / -40° to 60° C 1% to 90%, non-condensing at 40° C / 95%, non-condensing at 45° C
System and Software	System must have a PMC bus, 66 MHz or faster (33 MHz will work, but at reduced data rates). Software is included for Windows and Linux; for versions, see edt.com.	

Ordering Options

- Connector: **Berg (included)** / Kings (optional), for external triggering, IRIG-B input, or both
- Environmental: Extended temperature

Bold is default. **Ask about custom options.**

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