

Camera Link® PCIe x1 Card for Desktop PCs

VCE-CLPCIe02

Simultaneous acquisition from two Base Camera Link cameras or one Medium Camera Link camera. Fully PoCL with SafePower compliant. Includes a comprehensive Programmable Logic Controller and 8 I/O signals.



IMPERX Framelink PCIe x1 is a professional level PCI Express video capture card that enables users to view and store in real time mega pixel images from any Camera Link source onto desktop computers. The Framelink PCIe x1 is capable of capturing single or multiple frames and standard AVI clips from any Base or Medium Camera Link compliant video source. Each captured frame can be stamped with a user message along with the date and time of capture. The Framelink VCE-CLPCIe02 comes with easy to use camera configuration software for fast integration of the card into demanding machine vision environments.

Features

- PCIe x1 compliant providing 2.5 Gbps of bandwidth
- Fully compliant with the Power over Camera Link (PoCL) and Safe Power specifications
- Built in comprehensive programmable logic controller (PLC)
- Intelligent scatter/gather DMA for fast, efficient use of PCIe bandwidth and system memory
- Flow-through pipeline architecture for low latency
- Includes 4 external inputs each configurable as TTL, LVDS or Opto-coupled
- Includes 4 general outputs each configurable as TTL, LVDS, Opto-coupled or Open Collector
- Dynamic buffer allocation
- Selectable window sizes
- Adjustable RGB brightness and auto white balance
- Unique 'auto-learn' feature automatically recognizes camera parameters and simplifies CAM file creation
- Bayer pattern interpolation
- Captures single, multiple frames or AVI clips
- Normal or delay capture
- Date, time and text overlay
- BMP, TIFF or adjustable JPEG file format
- Image viewer with DVR controls
- Many advanced features including look up tables, histograms, RGB gain/offset with auto-white balance, hex pixel dump, etc.

Software

- Application program: Full featured, intuitive, easy to use GUI
- Drivers: Win XP/2000/Vista/7/8, DirectX, Halcon, LabVIEW, Matlab
- SDK: C/C++, COM, .NET, ActiveX - all with sample source code

Video Source

- Uses two mini-CL (SDR/HDR) connectors
- Base: 24 video data bits plus strobes and clock per channel
- Medium: 48 video data bits plus strobes and clock per channel
- 4 camera control bits (CC1 to CC4) per channel
- Bi-directional serial interface per channel

Video Format

- Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14, 1x16 and 3x8 (RGB24)
- Medium: 4x8, 3x10, 4x10, 3x12, 4x12, RGB30 and RGB36
- Monochrome and color: RGB, Bayer and TRUESENSE Sparse CFA

Power

- 3.3V DC +/-5%, 500 mA steady
- 1.65W constant power

Environmental

- Operating temperature: 0°C to 65°C
- Relative humidity: 90% non-condensing

MTBF

- >330,000 hours @ 50°C

Regulatory

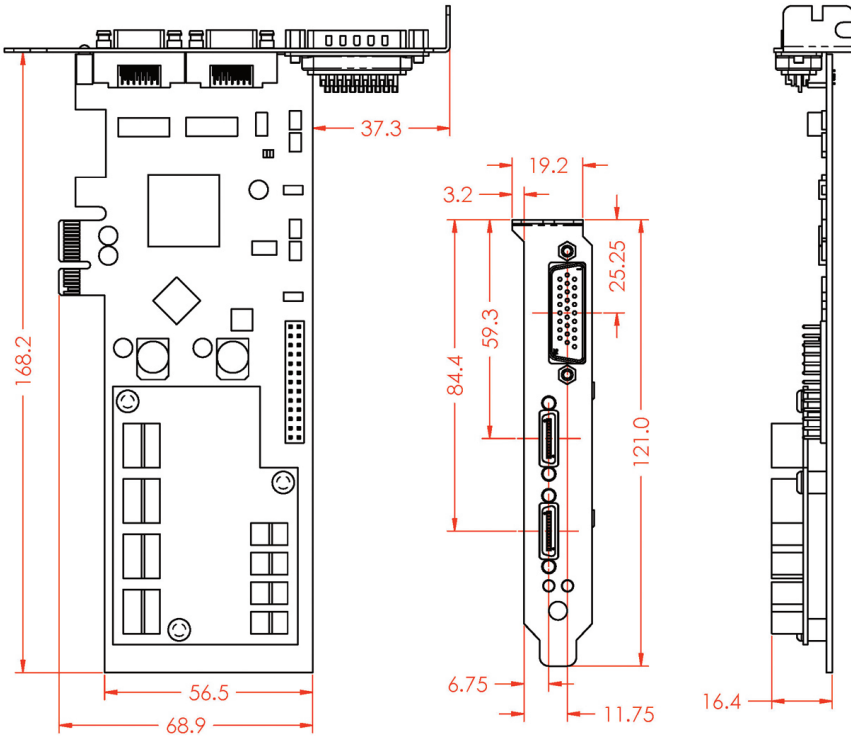
- FCC part 15, Class B, CE, RoHS

Mechanical

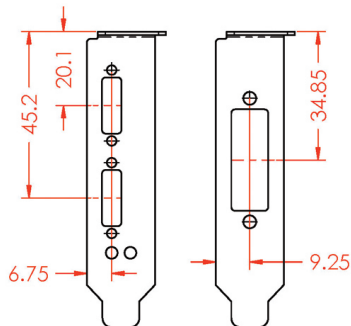
- Low profile PCI Express form factor



Order: VCE-CLPCle02



ALSO SUPPLIED WITH LOW PROFILE BRACKETS



Camera parameters

Manufacturer: **IMPERX** Load...

Model:

Description:

Alias: Save...

Camera resolution

Learn	Pre-valid	Valid	Post-valid
Width(pixels) 0	648	0	0
Height(lines) 0	488	0	0

Tap reconstruction

Swap taps More >>>

2 tap, L->R Interleaved

Strobes

Ignore DVAL Monochrome

Invert DVAL Bayer

Invert LVAL RGB

Invert FVAL CMYG TRUESENSE

Video Type

Camera bit depth

Packed RGB24 RGB30 RGB36

Pattern start

<input checked="" type="radio"/> P	<input type="radio"/> B	<input type="radio"/> P	<input type="radio"/> G
<input type="radio"/> B	<input type="radio"/> P	<input type="radio"/> G	<input type="radio"/> R
<input type="radio"/> P	<input type="radio"/> G	<input type="radio"/> P	<input type="radio"/> R
<input type="radio"/> G	<input type="radio"/> P	<input type="radio"/> R	<input type="radio"/> P

Apply Start grab

Capture settings

Image format

BMP Best Small

JPEG

TIFF Normalize

RAW

Capture options

Single Frames...

Series of frames...

AVI Video...

Start Capture

RGB Control

RGB Offset

Red 0 zero

Green 0 zero

Blue 0 zero

Link

White balance

Analyze Mean RGB = (0,0,0)

Apply

RGB Gain

Red 1.0000000

Green 1.0000000

Blue 1.0000000

Unity

Red gain = 0.000000

Green gain = 0.000000

Blue gain = 0.000000



Société SAIS
102 route de Limours - DOMAINE DE ST PAUL - BAT 14 bureau 12
78470 ST REMY LES CHEVREUSE

Tel : 09 54 16 23 53 - Fax : 09 59 16 23 53

contact@sacasa.info - www.sacasa.info