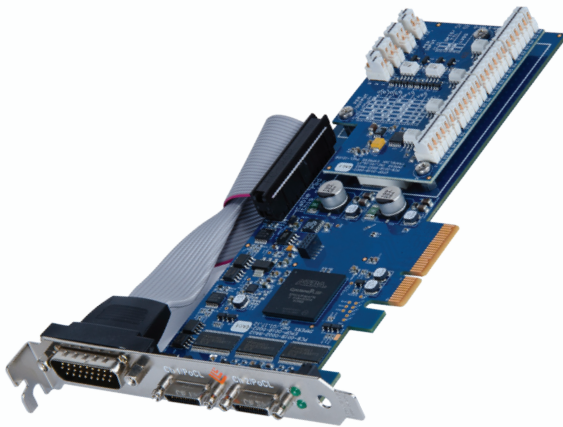


VCE-CLPCIe03

Camera Link® PCIe x4 Card for Desktop PCs

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 x4 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. This Framelink PCIe x4 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-CLPCIe03 comes with easy to use camera configuration software for fast integration of the card into demanding machine vision environments.

Features

- PCIe x4 compliant providing 10 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
- Unique 'auto-learn' feature automatically recognizes camera parameters and simplifies CAM file creation
- 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
- 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 in 32 and 64 bit versions, DirectX, LabVIEW, Matlab, Halcon, MIL
- 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 85°C
- Relative humidity: 90% non-condensing

MTBF

- >330,000 hours @ 50°C

Regulatory

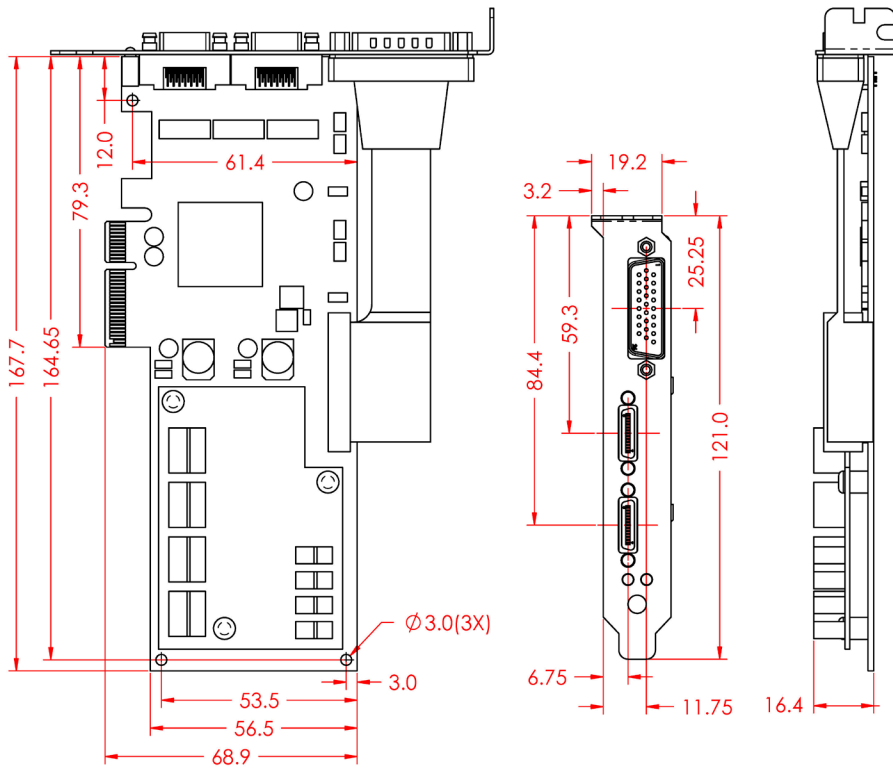
- FCC part 15, Class B, CE, RoHS

Mechanical

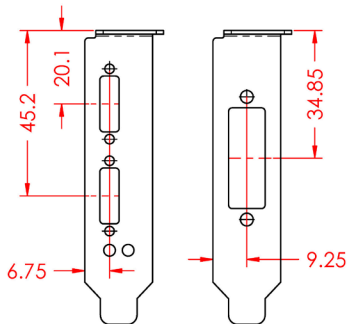
- Low profile PCI Express form factor



Order: VCE-CLPCIe03



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

Invert DVAL

Invert LVAL

Invert FVAL

Video Type

Monochrome

Bayer

RGB

GMYG

TRUESENSE

Camera bit depth

Packed

8 10 12 14 16

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"/> P
<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

RAW Normalize

Capture options

Single Frames...

Series of frames...

AVI Video...

Start Capture

RGB Control

RGB Offset

Red zero

Green zero

Blue zero

Link

White balance

Analyze

Apply

Mean RGB = (0,0,0)

RGB Gain

Red 1.0000000

Green 1.0000000

Blue 1.0000000

Unity

Red gain = 0.000000

Green gain = 0.000000

Blue gain = 0.000000



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