IMPERX

FRAME GRABBERS

VCE-CLPCle03

Camera Link® PCIe x4 Card for Desktop PCs



Imperx: VCE-CLPCIe03

IMPERX Framelink PCle 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 PCle x4 is capable of capturing single or multiple frames and standard AVI clips on up to two Base or one 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-CLPCle03 comes with easy to use camera configuration software for fast integration of the card into demanding machine vision environments.

Key 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
- · Look up tables, histograms, hex pixel dump

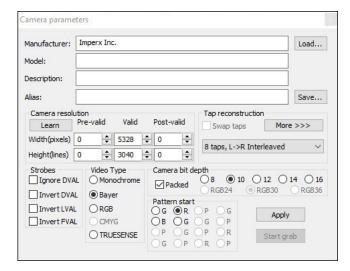
Specifications

Feature	Description	Feature	Descrip
Software	Application program: Full featured, intuitive, easy to use GUI Drivers: Windows 10/11 in 32 and 64 bit versions, DirectX, Halcon, LabVIEW, Matlab, MIL SDK: C/C++, COM, .NET, ActiveX – all with	Video Format	Base: 1) 1x14, 1x Medium: RGB30 : Monochi TRUESE
Video Source	sample source code 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	Power	3.3 V D0 1.65 W 0
		Mechanical	Low prof
		Weight	1.59 oz.
		Environmental	-40 °C to
		Humidity	90% nor
		MTBF	>390,00 MIL-HDE

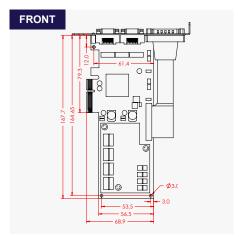
Feature	Description	
Video Format	Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14, 1x16 and 3x8 (RGB24) Medium: 4x8, 3x10, 4x10, 3x12, 4x12, RGB30 and RGB36 Monochrome and color: RGB, Bayer and TRUESENSE Sparse CFA	
Power	3.3 V DC +/-5%, 500 mA steady 1.65 W constant power	
Mechanical	Low profile PCI Express form factor	
Weight	1.59 oz. (45 g)	
Environmental	-40 °C to +85 °C Operating	
Humidity	90% non-condensing	
MTBF	>390,000 hours @ 50°C (MIL-STD-785B, MIL-HDBK-217F)	
Regulatory FCC Part 15 Class B. CE. RoHS		

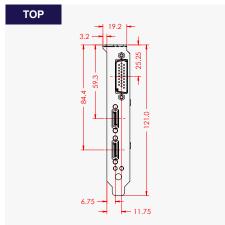


Software



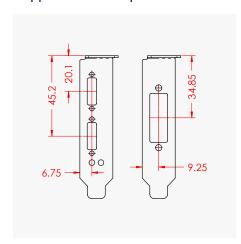
Dimensions







Supplied with low profile bracket



Ordering Information

VCE-CLPCIe03

For specific details and ordering information, consult the FrameLink Express user's manual or contact IMPERX at sales@imperx.com.



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