CHEETAH RUGGEDIZED CAMERA SERIES

FRAME GRABBERS

VCE-CLPCle02

Camera Link® PCIe x1 Card for Desktop PCs



Imperx: VCE-CLPCIe02

IMPERX Framelink PCle x1 is a professional level PCl Express video capture card that enables users to view and store in real time mega pixel images from Camera Link source onto desktop computers. The Framelink PCle x1 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-CLPCle02 comes with easy to use camera configuration software for fast integration of the card into demanding machine vision environments.

Key Features

- · PCIe x1 lane 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, Optocoupled 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

Regulatory

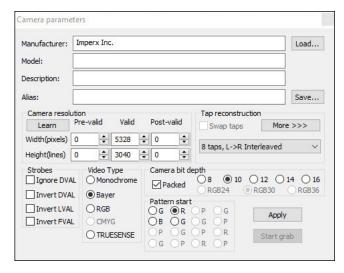
- Date, time and text overlay
- · BMP, TIFF or adjustable JPEG file format
- · Image viewer with DVR controls
- · Look up tables, histograms, hex pixel dump

Specifications

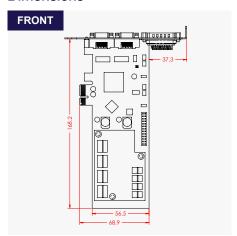
Feature	Description	Feature	Description
Software	Application program: Full featured, intuitive, easy to use GUI Drivers: Windows 10/11, DirectX, Halcon, LabVIEW, Matlab SDK: C/C++, COM, .NET, ActiveX - all with sample source code	Video Format	Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14, 1x16 and 3x8 (RGB24) Medium: 4x8, 3x10, 4x10, 3x12, 4x12, RGB30 and RGB36 Monochrome and color: RGB, Bayer and TRUESENSE Sparse CFA
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	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)

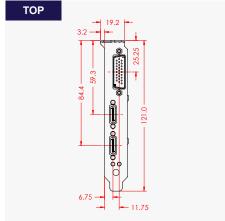


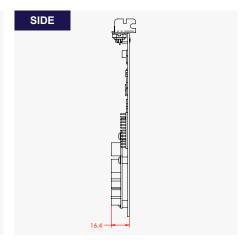
Software



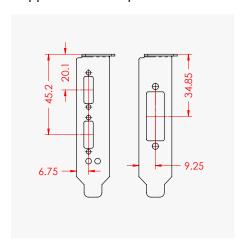
Dimensions







Supplied with low profile bracket



Ordering Information

VCE-CLPCIe02

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



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