SPECIFICATIONS



CAMERAS FRAME GRABBERS IMAGING SOLUTIONS

VCE-CLPCle04



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. The Framelink PCIe x4 is capable of capturing single or multiple frames and standard AVI clips from any Base, Medium, Full or Deca 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-CLPCIe04 comes with easy to use camera configuration software for fast integration of the card into demanding machine vision environments.

Camera Link[®] PCIe x4 Card for Desktop PCs

Acquisition from a Base, Medium, Full or Deca Camera Link camera

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MILITARY | AEROSPACE

MEDICAL | SCIENTIFIC

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					
	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					
	Flow-through pipelined architecture for low latency					
	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 Medium: 48 video data bits plus strobes and clock					
	Full: 64 video data bits plus strobes and clock					
	Deca: 80 video data bits plus strobes and clock					
	Bi-directional serial interface					
Video Format	Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14, 1x16					
	and 3x8 (RGB24)					
	Medium: 4x8, 3x10, 4x10, 3x12, 4x12, RGB30 and RGB36					
	Full: 8x8					
	Deca: 8x10 or 10x8					
	Monochrome and color: RGB, Bayer and TRUESENSE Sparse CFA					
Power	3.3V DC +/-5%, 500 mA steady					
	1.65W constant power					
Environmental	Operating temperature: -40°C to +85°C					
	Relative humidity: 90% non-condensing					
MTBF	>390,000 hours @ 50°C (MIL-STD-785B, MIL-HDBK-217F)					
Regulatory	FCC part 15, Class B, CE, RoHS					
Mechanical	Low profile PCI Express form factor					

AERIAL IMAGIN

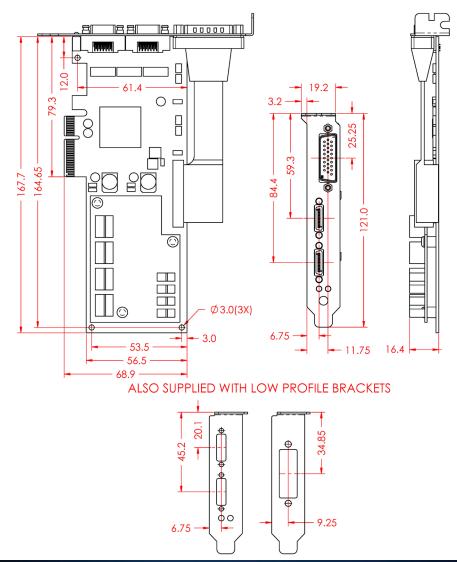
HD-SDI TRAFFIC | TRANSPORTATION



Order: VCE-CLPCIe04

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

Camera parameters							
Manufacturer: Model:	IMPERX Load						
Description:							
Alias:					Save		
Camera resolu Learn Width(pixels) Height(lines)	Pre-valid 0 ‡	Valid 648 🛟 488 🐳	Post-valid	Tap reconstruction Swap taps 2 tap, L->R Inter	More >>>		
Strobes Video Type Ignore DVAL • Monochrome Invert DVAL • Monochrome Invert DVAL • Bayer O RGB • C RGB24 Invert LVAL • RGB O CMVG • B C P C G C P O TRUESENSE • G C P C R C P							
Capture settings	×	RGB Control			×		
Image format BMP Best Small JPEG		RGB Offset		0 × v zero	RGB Gain Red 1.0000000		
C TIFF		Green		Green 1.0000000			
Capture options		Blue	 Link	i 0 i i i i i i i i i i i i i i i i i i	Blue 1.0000000 Unity		
Series of frames AVI Video		White balance Analyz	ze Mean RGB	= {0,0,0}	Red gain = 0.000000 Green gain = 0.000000		
Start Capture				Blue gain = 0.000000			





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