CHEETAH RUGGEDIZED CAMERA SERIES

FRAME GRABBERS

VCE-CLPCIe01 Camera Link[®] PCIe x1 Card for Desktop PCs



Imperx: VCE-CLPCIe01

IMPERX FrameLink PCIe x1 is a professional level video capture card that enables users to view and store in real time mega pixel video images from Camera Link sources onto desktop computers. IMPERX FrameLink PCIe 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. A full software suite that includes drivers, C/C++, SDK, and an application program is provided with each FrameLink VCE-CLPCIe01 card.

Key Features

- PCIe x1 lane providing 2.5 Gbps of bandwidth
- Intelligent scatter/gather DMA for fast, efficient use of PCIe bandwidth and system memory
- Built in CC pulse generators
- Unique 'auto-learn' feature automatically recognizes camera parameters and simplifies CAM file creation
- 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, RAW or adjustable JPEG file format
- · Image viewer with DVR controls
- · Look up tables, histograms, hex pixel dump

Specifications

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 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

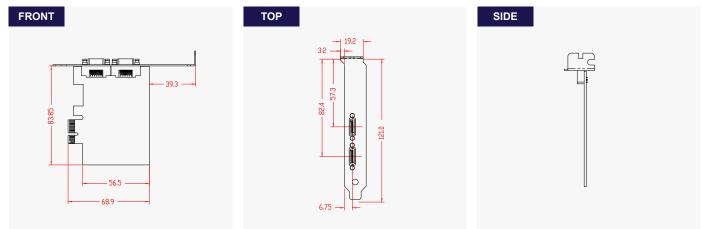
Description					
3.3 V DC +/-5%, 500 mA steady 1.65 W constant power					
Low profile PCI Express form factor					
1.59 oz. (45 g)					
-40°C to +85°C Operating					
90% non-condensing					
>390,000 hours @ 50°C (MIL-STD-785B, MIL-HDBK-217F)					
FCC Part 15 Class B, CE, RoHS					



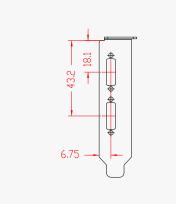
Software

Manufacturer:	Imperx Inc.								Load		
Model:	1										
MODEI:											
Description:											
Alias:	Γ										Save
Camera resol							Та	p recon	struction	n	
Learn	Pre-valid Valid Post-valid Swap							Swap t	aps	More	e >>>
Width(pixels)	0	-	5328	*	0	-				dama da	
Height(lines) 0								8 taps, L->R Interleaved ~			
Strobes		Video T	ype		Camer	a bit d					
Ignore DV/	nore DVAL O Monochrome			Packed 08 10 012 0							
Invert DVA				Pattern start						O RGB36	
Invert LVA						R	P	G			
Invert FVAL					Ŏв	ÖG	G	ÖP	O P Apply		
					ÕР	GG	OP.	OR			

Dimensions



Supplied with low profile bracket



Rev: VCE-CLPCle01_r3_2023

Ordering Information

VCE-CLPCle01

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



IMPERX 6421 Congress Ave., Boca Raton, FL 33487, USA Tel: +1-561-989-0006. Email: sales@imperx.com

WWW.IMPERX.COM

Quality Management System ISO 9001:2015 Registered Environmental Management System ISO 14001:2015 Registered DDTC Registered (Directorate of Defense Trade Controls, US Department of State)



Technical data has been fully checked, but accuracy of printed matter is not guaranteed. Subject to change without notice. Copyright 2023