

Camera Link® PCIe x4 Card for Desktop PCs

VCE-CLPCIe04

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



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.

Features	<ul style="list-style-type: none">PCIe x4 compliant providing 10 Gbps of bandwidthFully compliant with the Power over Camera Link (PoCL) and Safe Power specificationsBuilt in comprehensive programmable logic controller (PLC)Intelligent scatter/gather DMA for fast, efficient use of PCIe bandwidth and system memoryUnique 'auto-learn' feature automatically recognizes camera parameters and simplifies CAM file creationIncludes 4 external inputs each configurable as TTL, LVDS or Opto-coupledIncludes 4 general outputs each configurable as TTL, LVDS, Opto-coupled or Open CollectorFlow-through pipelined architecture for low latencyDynamic buffer allocationSelectable window sizesAdjustable RGB brightness and auto white balanceBayer pattern interpolationCaptures single, multiple frames or AVI clipsNormal or delay captureDate, time and text overlayBMP, TIFF or adjustable JPEG file formatImage viewer with DVR controlsMany advanced features including look up tables, histograms, RGB gain/offset with auto-white balance, hex pixel dump, etc.
Software	<ul style="list-style-type: none">Application program: Full featured, intuitive, easy to use GUIDrivers: Win XP/2000/Vista/7/8 in 32 and 64 bit versions, DirectX, LabVIEW, Matlab, Halcon, MILSDK: C/C++, COM, .NET, ActiveX—all with sample source code
Video Source	<ul style="list-style-type: none">Uses two mini-CL (SDR/HDR) connectorsBase: 24 video data bits plus strobes and clockMedium: 48 video data bits plus strobes and clockFull: 64 video data bits plus strobes and clockDeca: 80 video data bits plus strobes and clockBi-directional serial interface
Video Format	<ul style="list-style-type: none">Base: 1x8, 2x8, 3x8, 1x10, 2x10, 1x12, 2x12, 1x14, 1x16 and 3x8 (RGB24)Medium: 4x8, 3x10, 4x10, 3x12, 4x12, RGB30 and RGB36Full: 8x8Deca: 8x10 or 10x8Monochrome and color: RGB, Bayer and TRUESENSE Sparse CFA
Power	<ul style="list-style-type: none">3.3V DC +/-5%, 500 mA steady1.65W constant power
Environmental	<ul style="list-style-type: none">Operating temperature: 0°C to 85°CRelative humidity: 90% non-condensing
MTBF	<ul style="list-style-type: none">>330,000 hours @ 50°C
Regulatory	<ul style="list-style-type: none">FCC part 15, Class B, CE, RoHS
Mechanical	<ul style="list-style-type: none">Low profile PCI Express form factor



