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PIXCI® E8

PCI Express x8 Camera Link Frame Grabber

Features

- PCIe x8 frame grabber
- Operates in PCI express bus x16 or x8 slot
- 20 gigabit per second burst DMA transfer rate
- 850 megabytes per second sustained transfer rate
- Power over Camera Link selectable
- Two 26-pin MDR Camera Link connectors
- 64-bit memory addressing



Base, Medium, Full Camera Link Support
Power over Camera Link (PoCL)
PCI Express x8 Bus

Image Capture

- Base, medium, full, or 80-bit camera
- Two base cameras
- Line scan or area scan cameras
- Monochrome or color cameras
- Individual lines or frames

- Triggered image sequence

Trigger, Strobe, and I/O Signals

- Camera exposure and asynchronous reset control
- Trigger and frame enable inputs
- Strobe output
- General purpose inputs and outputs

Specifications

- 12 volts @ 120 mA, 3.3 volts @ 720 mA
- 13.1 cm long, 10.6 cm high, 5.15" long, 4.15" high
- 102 grams, 3.6 ounces
- 0 to 70 degrees Celsius operation
- CE, FCC, ROHS compliant
- Camera pixel clock frequencies from 20 to 85 MHz
- Made in U.S.A.

Software

- XCAP (xcap.htm)-Lite image capture, display, and save program included with frame grabber purchase
- XCAP (xcap.htm)-LTD captures video to computer memory and more.. (xcap.htm#versions)
- XCAP (xcap.htm)-STD streams video to disk and performs image processing and more.. (xcap.htm#versions)
- PIXCI Selection Guide (../guide/index.htm) lists cameras supported with dedicated Capture & Adjust dialogs
- XCAP supports all camera link cameras connected to PIXCI® frame grabbers
- XCLIB (xclib.htm) programmer libraries for frame grabber and camera control
- PXIPL (pxipl.htm) image processing, measurement, and analysis libraries
- Windows & Linux, 32 & 64-bit

- TWAIN compatible
- 3rd Party (../links/softdir.htm) software solutions also available.

Featured In:



(http://www.photonics.com/Product.aspx?PID=5&VID=100&IID=588&PRID=49645)

FEATURES

POPULAR SUPPORTED HIGH BANDWIDTH CAMERAS

Camera	Resolution	Frame Rate	Bit Depth / Pixels	Notes
Allied Vision Technologies Bonito CL-400 Monochrome or Color	2320×1726	400 fps	10-Bit CMOS 7 μ^2 3.89 Mpixel	Needs one PIXCI® E8 for half frame rate, two for full frame rate.
Basler (http://www.baslerweb.com/) A406k Monochrome or Color	2320×1726	209 fps	8-Bit CMOS 7 μ^2 3.89 Mpixel	
Basler (http://www.baslerweb.com/) A504k Monochrome or Color	1280×1024	500 fps	8-Bit CMOS 12 μ^2 1.25 Mpixel	Global Shutter. Windowing for faster frame rate.
Mikrotron (http://www.mikrotron.de) EoSens CL 1362/1363 Monochrome or Color	1280×1024	500 fps	8/10-Bit CMOS 14 μ^2 1.25 Mpixel	Global Shutter. ISO 2500 (Mono). Windowing for faster frame rate.
NAC (http://www.nacinc.com/) HotShot 512 CL Monochrome or Color	512×512	2300 fps	8-Bit CMOS 16 μ^2 0.25 Mpixel	ISO 1650 (Mono). Freeze-Frame Global Shutter.

	NAC (http://www.nacinc.com/) HotShot 1280 CL Monochrome or Color	1280×1024	500 fps	8-Bit CMOS 12 μ^2 1.25 Mpixel	ISO 400 (Mono). Freeze-Frame Global Shutter.
	Princeton Instruments (http://www.piacton.com/) ES2020 or ES2001 Monochrome or Color	1600×1200	31.85 fps	12-Bit CCD 7.4 μ^2 1.92 Mpixel	
	Princeton Instruments (http://www.piacton.com/) ES2093 Monochrome or Color	1920×1080	30.12 fps	12-Bit CCD 7.4 μ^2 2.074 Mpixel	
	Princeton Instruments (http://www.piacton.com/) ES4020 Monochrome or Color	2048×2048	15.05 fps	12-Bit CCD 7.4 μ^2 4.19 Mpixel	Simultaneous capture with display from up to 4 camera heads at full resolution, bit depth, and frame rate.
	Princeton Instruments (http://www.piacton.com/) ES11000 Monochrome or Color	4008×2672	5.86 fps	12-Bit CCD 9.0 μ^2 10.71 Mpixel	
	Princeton Instruments (http://www.piacton.com/) ES1602 or ES1603 Monochrome	1536×1024	6.2 fps	12-Bit CCD 9.0 μ^2 1.57 Mpixel	
	Princeton Instruments (http://www.piacton.com/) ES3200 Monochrome	2184×1472	2.9 fps	12-Bit CCD 6.8 μ^2 3.3 Mpixel	
	Princeton Instruments (http://www.piacton.com/) EC11000 Monochrome or Color	4008×2672	5.86 fps	12-Bit CCD 9.0 μ^2 10.71 Mpixel Peltier Cooled	

Virtually ALL Full, Medium, & Base Camera Link Cameras	Supports Camera's Maximum Resolution	Supports Camera's Maximum Frame Rate	Any	Optimzed for camera link cameras listed in PIXCI Selection Guide (../guide/index.htm) .

The chart lists high-performance cameras that showcase the PIXCI® E8 board's capability to transfer massive amounts of image data which translates into the ability to capture high resolutions at comparatively fast frame rates. The PIXCI® E8 is primarily designed to support high performance cameras, but it also works with virtually *ALL* camera link cameras.

Please visit the PIXCI Selection Guide (../guide/index.htm) for a comprehensive listing of supported cameras.

SPECIFICATIONS

SIGNAL INPUT & OUTPUT:

EIA RS-644 (LVDS) Drivers & Receivers support pixel clock frequencies up to 85 MHz.

PERFORMANCE (Camera Link):

Supports the camera's maximum:
Horizontal Resolution
Vertical Resolution
Frame Rate
Bit Depth

CONNECTIONS:

Two 26-pin 3M MDR Camera Link connectors for Full, Medium, and Base.
10-pin header for Trigger, Frame Enable, and Strobe.
10-pin header for General Purpose Inputs and Outputs.

BUS REQUIREMENTS:

PCI Express x8 Bus slot.
Operates in PCI Express Bus x16 or x8 slot.

POWER REQUIREMENTS:

12 V @ 120 mA
3.3 V @ 720 mA
Total 3.816 Watts

DIMENSIONS:

13.08 cm long by 10.55 cm high
(5.15" long x 4.153" high)

CERTIFICATIONS:

CE. FCC, & ROHS Compliant

EPIX SOFTWARE Support:

Supported by XCAP (xcap.htm)-Lite (no charge with board purchase), XCAP (xcap.htm)-Ltd, XCAP (xcap.htm)-Std, XCLIB (xclib.htm), and XCLIBIPL (pxipl.htm).
Compatible with 32-bit & 64-bit Windows 10, 8, 7, Vista, XP, 2000, LINUX, and 32-bit DOS. Also TWAIN and Image-Pro Compatible.

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