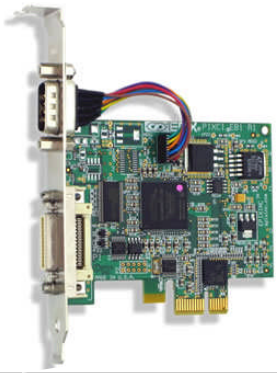
PIXCI® EB1



The PIXCI® EB1P is a low cost, low profile frame grabber with Power over Camera Link (PoCL). The PIXCI EB1P is compatible with all area scan and line scan base configuration Camera Link cameras. Experience high speed, low latency, 2.5 gigabit per second burst image transfers to a PCI Express bus x1 through x16 slot.

The PIXCI® EB1P safely supports PoCL cameras by detecting when a PoCL camera is connected and will disconnect power if it exceeds the specification. Standard base configuration Camera Link cameras are also supported. Meeting the low profile size requirements, the PIXCI EB1P is ideal for use in space saving computers.

The PIXCI® EB1 is the lowest cost Camera Link frame grabber on the market. The PIXCI® EB1 includes EPIX' XCAP-Lite software and is ready to run with camera specific, integrated, controls for most popular Camera Link cameras and easy-to-use generic configuration controls for other Camera Link cameras.

When the speed of image capture and low latency are important, the PIXCI® EB1 gets the job done without waiting for a network to respond to an image transfer request. The PIXCI® EB1 transfers twice as fast as gigabit Ethernet, three times faster than Firewire, and ten times faster than USB. Images are available in host computer memory within one line time after leaving the camera. The PIXCI® EB1 is the fastest and lowest cost device for high speed, low latency image capture.

- Base Configuration Camera Link Frame Grabber
- PoCL (Power over Camera Link)
- PCI Express x1
- Low Profile
- 2.5 Gigabit/sec Burst Writes to PCI Express Bus
- Line Scan or Area Scan
- Camera Frame Rate Sequence Capture
- Triggered Image Sequence Capture
- 64-Bit Memory Addressing
- Camera Integration & Async Reset Control
- Integration From Microseconds to Minutes
- Images Stored in Motherboard Memory or RAID Array
- Windows & Linux, 32 & 64–bit Compatible
- RoHS Compliant

The XCAP imaging program supports up to eight PIXCI® EB1 frame grabbers making it possible to use multiple Base configuration Camera Link cameras simultaneously. The XCAP-Std program allows simultaneous use of the PIXCI® EB1 with other EPIX® frame grabbers supporting different camera models, either Camera Link compatible or not. XCAP-Std also offers video-to-disk capture, subject to the performance of the host computer's RAID array.

SIGNAL INPUT & OUTPUT:

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

PERFORMANCE:Supports the camera's maximum:

Horizontal Resolution
Vertical Resolution
Frame Rate
Bit Depth

CONNECTIONS:

One 26-pin 3M MDR Camera Link connector for Base.
6-pin connector for Trigger, Frame Enable, and Strobe.
Camera Link cables available.

DATA TRANSFERS:

Supports cameras with data output rates up to 250 MBytes/second.
64-bit memory addressing

BUS REQUIREMENTS:

PCI Express x1 slot.
Operates in PCI Express x16, x8, x4, or x1 slot.

DIMENSIONS:

8.38 cm long by 6.88 cm high
(3.30" long x 2.71" high)

CERTIFICATIONS:

CE Compliant
ROHS Compliant

EPIX SOFTWARE Support:

Supported by XCAP-Lite (no charge with camera purchase), XCAP-Ltd, XCAP-Std, XCLIB, and XCLIBIPL. Compatible with Windows Vista, XP, 2K, LINUX, and 32-bit DOS. Also TWAIN and Image-Pro Compatible.

Pyramid Imaging

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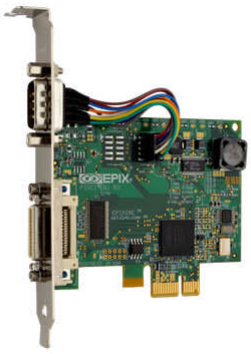
PIXCI® EB1-PoCL



The PIXCI® EB1-PoCL frame grabber supports all base configuration Camera Link cameras. When connected to a PoCL camera (Power over Camera Link) with PoCL cable, the PIXCI EB1-PoCL provides camera power.

The PIXCI® EB1-PoCL is a low cost PCIe x1 frame grabber supporting all base configuration area scan or line scan Camera Link cameras with maximum sustained data transfer rates up to 200 megabytes per second. Images are available in host computer memory within one line time after leaving the camera. The PIXCI® EB1-PoCL frame grabber is low-profile and is available with either a standard (12cm) or a low-profile (8cm) bracket.

The PIXCI® EB1-PoCL ships with the XCAP-Lite imaging program included at no additional charge. The XCAP-Lite program includes camera specific Capture & Adjust Dialogs for the hundreds of Camera Link cameras listed in the "PIXCI® Selection Guide" [available from the EPIX® home page (www.epixinc.com)]. Easy-to-use Generic configuration controls are provided for other Camera Link cameras (See "Any Camera Link" in the PIXCI® Selection Guide).Capture & Adjust Dialogs provide immediate camera control and image capture capability without requiring custom software development.

Up to sixteen PIXCI® EB1-PoCL frame grabbers can be installed in one computer, making it possible to use multiple base Camera Link cameras simultaneously [64 bit operating system required].

The XCAP-Ltd and XCAP-Std imaging programs are optionally available. The XCAP-Ltd program provides video sequence capture and save to as much as 8 gigabytes of computer memory (requires a 64 bit operating system and 12 gigabytes of installed memory). The XCAP-Std program provides video capture to all memory not used by the operating system, allows simultaneous use of the PIXCI®EB1-PoCL with other EPIX® frame grabbers; and offers video-to-disk capture.

EPIX® also offers the PIXCI® EB1 frame grabber. The PIXCI® EB1 is similar to the PIXCI® EB1-PoCL but the PIXCI EB1 does *not* provide Power over Camera Link, and it is lower-priced than the PIXCI EB1-PoCL.

Solutions and Support: EPIX, Inc. has been providing imaging solutions and support for OEM machine vision manufacturers and engineers since 1984. EPIX, Inc. assembles complete imaging systems with cameras, frame grabbers, high-performance PCI Express buses, and with RAID arrays for video-to-disk capture. EPIX® imaging systems, custom-built to your specifications, feature Intel processors and performance-verified motherboards.

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- **Low Profile**
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- **Camera Frame Rate Sequence Capture**
- **Triggered Image Sequence Capture**
- **64-Bit Memory Addressing**
- **Camera Integration & Async Reset Control**
- **Integration From Microseconds to Minutes**
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Compatible with 32-bit & 64-bit Windows 8, 7, Vista, XP, 2000, LINUX, and 32-bit DOS.
Also TWAIN and Image-Pro Compatible

CONNECTIONS:
One 26-pin 3M MDR Camera Link connector for Base.
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