PIXCI® ECB2

The PIXCI® ECB2 frame grabber provides two interfaces for any two Base camera link cameras. The PIXCI ECB2 is handled by EPIX' software as if two PIXCI ECB1 boards are installed. The ECB2 will accept two trigger signals one for each camera; or allows a single trigger to control capture from both cameras.

A strobe output signal is generated for each trigger. The PIXCI ECB2 frame grabber supports two cameras with a combined sustained bandwidth up to 204 MB/second. Compatible with *Express*Card, the mobile PCI Express interface for notebook computers, the PIXCI® ECB2 frame grabber interfaces to more than 100 of the newest, most advanced, highest bandwidth machine vision cameras available.

The PIXCI® ECB2 offers:
- 191 megabytes per second, sustained, data transfer rate to laptop. Faster notebooks may provide up to 204 megabytes per second, sustained, data rates. Burst transfers at 250 megabytes per second.
- Camera specific controls - exposure, bit depth, gain, frame rate, etc.
- Camera operation in free-run mode for maximum frame rate capture.
- Camera operation in control (trigger) mode.

- Dual Base ConfigurationCamera Link Frame Grabber
- ExpressCard Compatible
- 250 Megabyte/sec Burst Transfers
- 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 directly to hard drive
- Windows & Linux, 32 & 64–bit Compatible
- RoHS Compliant

The PIXCI® ECB2 is a plug-n-play frame grabber requiring no hardware setup or adjustment. Install the board, load the software, connect the camera, and capture images. Upon startup, the XCAP imaging program reads a camera identification chip on the PIXCI® ECB2 frame grabber, allowing XCAP to load the appropriate video format and display the camera's dedicated Capture & Adjust Dialog.

The XCAP imaging program offers video-to-disk capture subject to the performance of the notebook's hard drive. Capture 1600 x 1200 Bayer pattern color images, 14 frames per second, 8 bits per pixel, directly to notebook hard drive for 2 hours!

Interfaces to almost any base camera link camera. The PIXCI® ECB2 frame grabber requires a computer with an *Express*Card/54 slot. Few cameras exceed the frame grabber's 191 megabyte per second sustained data rate. Support for medium or full camera link cameras in a notebook is available with the PIXCI® EC1. Support for higher bandwidth camera link cameras is available with the PIXCI® E4 frame grabber in a desktop computer with a x4 PCI Express bus. The PIXCI® E4 interfaces to cameras with a bandwidth requirement up to 700 Megabytes (5600 Mbits) per second.

Notebook Compatibility:

The PIXCI® ECB2 frame grabber requires a notebook with ExpressCard/54 slot. When purchasing a notebook, ask the computer supplier for their return policy. Plan the purchase to coincide with the purchase of the PIXCI® ECB2 and camera. Allow a few days to complete testing and for returning the notebook if it proves incompatible.

The PIXCI® ECB2 frame grabber always ships with a version of the XCAP program -- either XCAP-Lite (no charge) XCAP-Ltd, or XCAP-Std. XCAP provides camera control, image display, image capture, pixel examination and image save – everything required to immediately test and verify compatibility without the need for software development.

Install the XCAP program, the PIXCI® ECB2 frame grabber, and the targeted camera to verify that all work properly together. Operate the camera at maximum frame rate, resolution, and bit depth. Contact EPIX® technical support, or your distributor of EPIX® imaging products, with any questions.

If the notebook proves incompatible, then please report the incompatibility to either EPIX, Inc., or to your distributor of EPIX® imaging products. We can extend the evaluation period to allow compatibility verification with another notebook.

HP/Compaq, Toshiba, Lenovo, Eurocom and Intel Whitebox Notebooks have been tested and are recommended. Dell notebooks equipped with an Intel 915 chipset are recommended. Dell notebooks equipped with an Intel 945 chipset are not recommended. Update: Customers are reporting Dell notebooks working after updating the BIOS.