PCI Interface Board for Base Level Camera Link Cameras

The PIXIC® CL1 Camera Link board accepts data from a Camera Link camera while providing exposure, reset, and serial control. The PIXIC CL1 capture and control board reduces the cost of digital imaging systems by reducing the cost of cabling and integrated circuits for interfacing a camera to a computer. The PIXIC CL1 has a single 26 pin connector and supports a camera with the Base configuration of the Camera Link specification. The PIXIC CL1 transfers video data to the PCI bus at up to 100 megabytes per second sustained rates as a PCI bus master. The PIXIC CL1 operates in a 32 bit, 33 MHz PCI bus slot.

VIDEO CAPTURE and CAMERA CONTROL
The PIXIC CL1 has a programmable video capture window to allow capture of less than the entire image from the camera. The user can select a minimum of 1 line of 8 pixels or select up to the entire image array from the camera. A camera control circuit specific to the timing requirements of the attached camera provide camera reset, exposure control, and a strobe output. A trigger input allows the circuit to respond to external events. Camera integration can be programmed from microseconds to minutes.

Supported Camera Link Cameras:
Adimec: 1000m
Atmel: AviivA-512,1024,2048,4096
Basler: A102k, A201b, A201bc, A202k, A301k, 301kc, A302k, A302kc, L101k-1k, L101k-2k, L103k-1k, L103k-2k, L104k-1k, L104k-2k, L301kc
Cohu: 7500CL, 7700CL, 7800CL
Dalsa: P2-21-1024, 2048, 4096, 6144, 8192
DVC: 1310AM-CL, 1310AC-CL, 1312AM-CL, 1312AC-CL, 1412AM-CL, 1412AC-CL
Hitachi: KP-F120-CL, KP-F100A-CL, KP-F100B-CL
Jai: CV-4MCL
Silicon Imaging: SI-3170M, SI-3170RGB, SI-3171M, SI-3171RGB
UNIQ Vision: UC-600CL, UP-1830CL
Varian: PaxScan 1313

New cameras are always being added to the list. Contact EPIX if your camera doesn’t appear.

SOLUTIONS and SUPPORT
CL1 Camera Link boards are part of the PIXIC series of PCI imaging boards. Accordingly, all CL1 boards are supported by the XCAP imaging program and the XCLIB / PXIPL C /C++ developer libraries. EPIX, Inc. has been providing imaging solutions and support for OEM machine vision manufacturers and engineers since 1984.
CAMERA CONTROL FROM SOFTWARE

Addendum: Please visit the EPIX web site: www.epixinc.com, for an up-to-date listing of the cameras EPIX supports. The most-recently added cameras appear near the bottom of the home page. The PIXCI Selection Guide, reached by clicking a button in the upper-left corner of the home page, provides a listing of all other cameras supported by PIXCI imaging boards. Look in column 5 “Supported By” for “PIXCI CL1”. EPIX offers more than 250 PIXCI CL1 boards supporting base configuration camera link cameras.

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