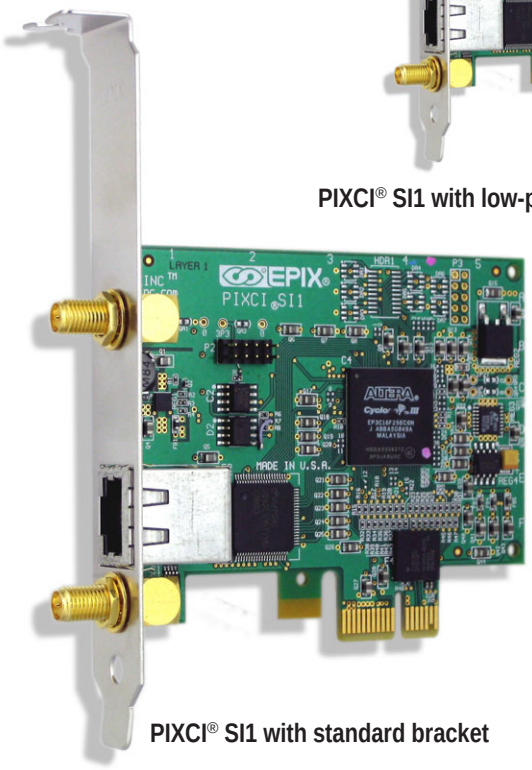
EPIX®

PIXCI® SI1

PIXCI® SI1 with low-profile bracket



PIXCI® SI1 with standard bracket

PIXCI® SI1 Frame Grabber Brings PCI Express to SILICON VIDEO® Cameras

The PIXCI® SI1 frame grabber allows use of most EPIX'® SILICON VIDEO® cameras on the PCI Express bus. Image and control data are transferred with minimal buffering over any PCI Express slot for low latency image capture and analysis. With 190 megabyte per second sustained data transfer rates, and burst transfers at 250 megabytes per second, the PIXCI® SI1 captures images over a software-selectable pixel clock range of 25MHz to 70MHz (typical). Higher pixel clock frequencies offer faster frame rates, shorter exposure times, and cable lengths up to 8 meters. Lower pixel clock frequencies enable slower frame rates, longer exposure times, and the use of longer cables.

Bit packing allows more images to be captured to memory or hard drive. 12-bit images are reduced in size by 25%: 10-bit images are reduced by 37.5%. The PIXCI® SI1 supports 64-bit memory addressing for writing long-duration image sequences into terabytes of memory.

TTL trigger and strobe connectors provide for async capture and flash control. The RJ45 camera cable connector carries image data, control, and power. The PIXCI® SI1 is available either with a standard bracket or with a low-profile bracket for low-height computers.

Supported SILICON VIDEO® cameras have resolutions of 0.3, 1.3, 3.1, 5.0, 9.1, and 10 megapixels. Area of interest controls allow reduction of image size for higher frame rates.

The XCAP-Lite imaging program provides board and camera controls with limited capture and save capabilities. XCAP-Lite is primarily recommended for custom software development. Choose the XCAP-Ltd program for convenient sequence capture, display, and save to as much as 8 gigabytes of memory. Choose XCAP-Std for maximum capture, display, and save capabilities combined with extensive processing, measurement, and analysis (including video-to-disk capture, [subject to the performance of the computer's RAID array]). Programmer's libraries (XCLIB) and image processing subroutines (PXIPL) are available for solving the most difficult particle tracking, machine vision measurement, inspection, image sequence analysis, and flow analysis tasks. Third party software is also available.

EPIX, Inc. assembles complete imaging systems with cameras, frame grabbers, high-performance PCI Express motherboards, and RAID arrays for video-to-disk capture. EPIX imaging systems, custom-built to your specifications, feature Intel motherboards and processors. Contact EPIX, Inc., or an authorized EPIX, Inc. distributor for help selecting cameras, frame grabbers, imaging software, optics and computer systems.

- Supports SILICON VIDEO® Cameras
- Provides camera power - eliminates power supplies
- 250 megabyte/sec Burst Data Transfers
- PCI Express x1 (and larger) Slot Compatible
- 190 megabyte/sec Sustained Data Transfer
- Camera Frame Rate Sequence Capture
- Triggered Image Sequence Capture
- 64-Bit Memory Addressing for extended data capture
- Camera Integration & Async Reset Control
- Integration From Microseconds to Minutes
- Images Captured to Computer Memory or RAID Array
- Compatible with Windows XP, 2000, Vista & Linux
- RoHS Compliant

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