

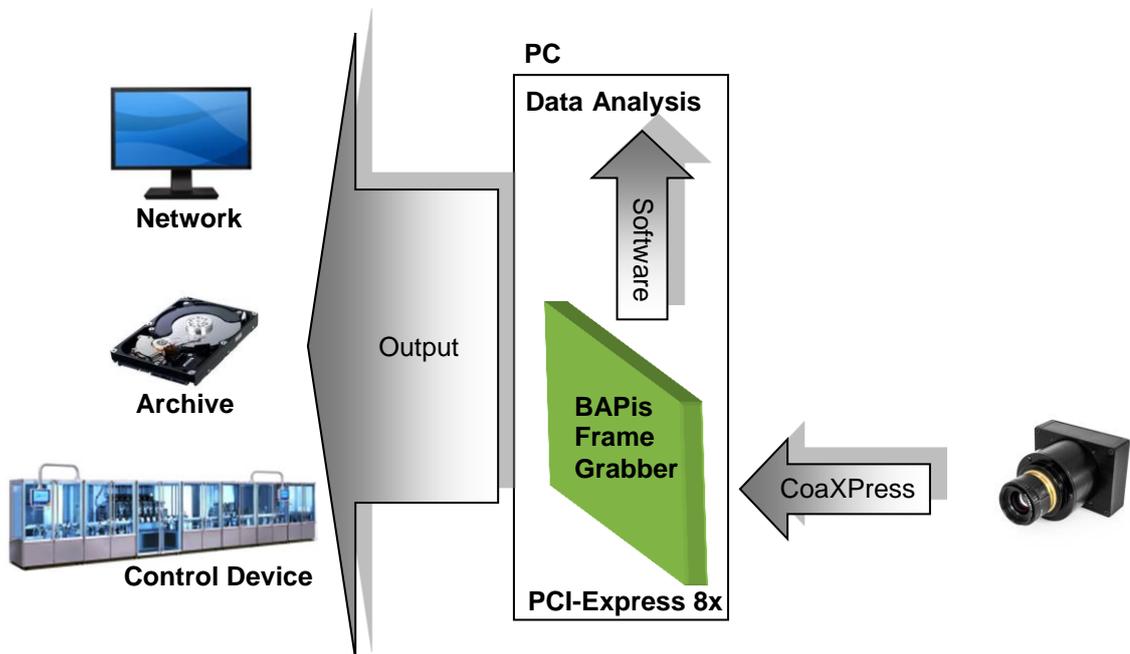
Frame Grabber for PCI-Express with two CoaXPress interfaces – PCIE4CXP2

Technical Features:

- CoaXPress First Edition compliant (year 2010)
- Supports up to two CXP cameras
- Provides power for all cameras (up to 13 W per camera)
- Provides Safe Power (full protection against short circuits, unconnected camera etc.)
- Supports multi-link CXP cameras (up to two links)
- Supports CXP speeds up to 5 Gbps (possible dilation to CXP speed standard from 1.25 to 5 Gbps)
- Cameras can work freelance
- Separate I/O for each camera
- Cable length up to 25 meters is supported
- PCI Express x8 rev. 2.0 interface (also works in x16 slots)
- Low latency from frame grabber to camera trigger
- Supports simultaneous serial communication to all cameras
- Windows "sees" a separate frame grabber for each camera
- On-board memory of up to 4 GB (DDR-3) available on the frame grabber board
- Acquire variable length frames from line scan cameras
- Acquire image sequences well beyond the 4 GB barrier
- No frame rate limit
- Quadrature encoder support including sophisticated triggering schemes
- Encoder divider/multiplier
- Drivers, utilities and examples for Windows XP/Vista/Windows 7
- Supports both 32-bit and 64-bit platforms
- Encoders and triggers for external control of acquisition
- Programmable signal generator for camera control (independent for each camera)
- Full GenICam support for control and capture
- Standard height, half-length PCIe card
- RoHS compliant



Frame Grabber for PCI-Express with two CoaXPress interfaces – PCIE4CXP2



The electronics of the PCIE4CXP2, which can be used in a PC as a standard PCI-Express x4 card, allows rapid communications between the cameras and the workstation. This board was designed for high-speed line capture applications, as well as high-resolution area scan cameras. The product is optimized for quality control and production line applications.

The data recorded by the camera can be analyzed by software and serves as a basis for other tasks such as: information for forwarding to internal company networks, data archiving, and simultaneous control of external devices. The standardized CoaXPress-Link works with the latest generation of cameras, particularly those in the area of industrial image processing. Therefore, it can be assured that our frame grabber is a fast, safe, and affordable solution for digital image transmission.

The dual CoaXPress interfaces use two standard coaxial cables. These cables cost much less than the single Camera Link cable, and enables both considerably higher throughput and greater maximum transmission lengths.

BAP Image Systems (BAPis) is a dependable and reliable imaging products and solution provider with highly proven industry experience. BAPis develops and manufactures cameras based not only on high speed CCD and CMOS line sensors, but also on area CMOS/CCD sensors. BAPis cameras are used in the machine vision industry as well as in the film industry. Additionally, BAPis develops and produces image grabbers and processing boards based on DSP and FPGA technologies using its own algorithms. Image processing boards are matched with camera performance and, when combined, are able to reach the highest possible throughput.

BAP Image Systems GmbH
 Etzstr. 37
 84030 Ergolding, Germany
 Tel: +49-871-43059922
 Fax: +49-871-43059929

BAP Image Systems, LLC
 1120 South Freeway, Ste 214
 Fort Worth, TX 76104, USA
 Tel: +1-817-878-2773
 Fax: +1-817-878-2739

info@bapimaging.com
 www.bapimaging.com