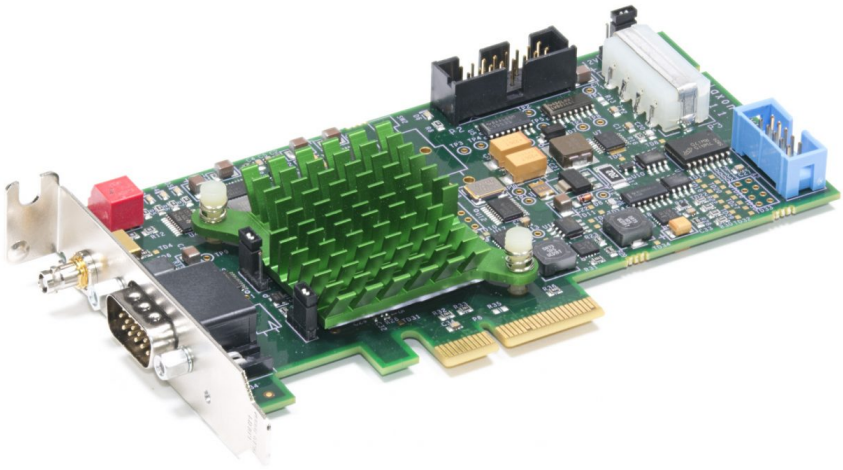
Frame grabbers for machine vision



CLAXON CXP1

The Claxon Platform

BitFlow has been shipping CoaXPress frame grabbers since 2012. The standard has not stood still and BitFlow has continued to advance its products. The latest is the Claxon, a quad CXP-12 PCIe Gen 3* frame grabber. CXP-12 is the latest CoaXPress speed jump, now transmitting video at 12. 5 Gb/S. While the speed of data through the frame grabber has doubled, the overall architecture has remained the same as the previous generation Cyton, allowing user to easily migrate to the newer cameras without major software changes.

The Claxon-CXP1 is just the second product on the Claxon platform. Coming soon

will be support for high speed data forwarding (over CXP) and support for CXP over fiber.

*Gen 3 is not required for a single link CXP-12 board.

Specifications

- Half-Size, low profile x4 PCI Express Gen 2.0 frame grabber
- Regular or low profile bracket option
- CoaXPress 1.x/2.x compliant
- Supports one single link CXP-12 camera
- Supports CXP speeds from 3.25 to 12.50 Gb/S
- Low speed uplink supported
- Uses micro BNC connector
- Provides power for camera (up to 13 Watts)
- Provides Safe Power, full protection from all power line faults
- Cameras are Plug and Play with automatic link speed and camera parameter detection
- Cable lengths of up to 100 meters are supported
- Compatible with all PCIe x4/x8/x16 slots Gen 1.0/2.0/3.0
- I/O available for camera
- Highly deterministic, low latency frame grabber to camera trigger
- Windows “sees” a virtual frame grabber for the camera
- StreamSync technology maximizes data through-put while minimizing image latency
- Acquire variable length frames from line scan cameras
- Triggers and encoders for external control of acquisition
- Drivers, utilities and examples for Windows and Linux
- Supported on both 32-bit and 64-bit platforms
- Drivers for most 3rd party processing environments (e.g. HALCON, LabView, VisionPro, MATLAB, etc.)
- Full GenICam support for camera control and capture
- Programmable signal generator for camera control (independent for each camera)
- Quadrature encoder support including sophisticated triggering schemes
- Encoder divider/multiplier
- RoHS compliant
- Supports BitFlow BitBox