



Frame grabbers for machine vision

## **CLAXON CXP2**

# 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-CXP2 is the latest product on the Claxon platform. Coming soon will be support for high speed data forwarding (over CXP) and support for CXP over fiber.

# Specifications

- Half-Size x8 PCI Express Gen 3.0 frame grabber
- CoaXPress 1.0/1.1/2.0 compliant
- Supports one dual or two single link CXP-12 cameras
- Supports CXP speeds from 3.25 to 12.50 Gb/S
- Supports simultaneous capture from two CXP-12 cameras
- Low speed uplink supported on all links
- Uses micro BNC connectors
- Provides power for all cameras (up to 13 Watts per link)
- 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
- Cameras can be accurately synchronized, or can be completely independent
- Compatible with all PCIe x8/x16 slots Gen 1.0/2.0/3.0
- Separate I/O for each camera
- Highly deterministic, low latency frame grabber to camera trigger
- Supports simultaneous command and control to all cameras
- Windows “sees” a separate virtual frame grabber for each 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

## Ordering Information

Part Number: CLX-PC3-CXP2

SDK 6.5 or later required