



Faster, smarter vision systems created by new FireBird CoaXPress frame grabbers

Get more out of your vision system by enabling your cameras to capture, process and transmit images at higher speeds and greater resolution.

Active Silicon's new **4xCXP-12 FireBird CoaXPress frame grabber** (PCIe Gen3 x8; CoaXPress v2.0) supports speeds up to 12.5 Gbps per link. It supports the fastest cameras on the market and is optimal for multi-camera systems. On-board RISC based processor technology guarantees **high-speed, low-latency** image data transfers and **zero CPU intervention**.



Active Silicon's new FireBird CoaXPress frame grabber 4xCXP-12 PCIe Gen3 x8

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The benefits of CoaXPress



CoaXPress adds speed and flexibility to machine vision systems and is particularly well-suited to high-speed industrial inspection applications. CoaXPress is reliable, offers improved triggering capabilities and is simple to integrate.

Ideal for multi-camera solutions, the **FireBird Quad CXP-12** supports either one 4-link camera, two 2-link cameras, or up to four 1-link cameras, all up to CXP-12. The board offers:

- Fast PCI Express 8-lane Gen3 interface.
- ActiveDMA engine – acquisition with zero CPU usage.
- Comprehensive I/O including end bracket I/O.
- Supports PoCXP (Power over CoaXPress).
- Micro-BNC connectors.
- Standard half-length PCI form-factor.
- Full GenICam support (including GenTL Producer).
- Supported by the proven ActiveSDK.

Each CoaXPress link on the FireBird acquisition card **supports up to 12.5 Gbps data rates**, along with **device power up to 13W** and **device control at up to 42 Mbps** – all on a single coax cable. For faster devices, the links can be concatenated to provide multiples of the single coax bandwidth. **Very long cable lengths** are supported – up to 35m at 12.5 Gbps and 100m at 3.125 Gbps using Belden 1694A cable – or even longer lengths using thicker cables.

FireBird is supported by Active Silicon's software development kit, **ActiveSDK**. This is available as a separate item and provides comprehensive example applications and optimized libraries. It supports Windows, Linux (64-bit environments) and QNX via a

common API. Drivers for third party applications are also available.

GenICam is fully supported, including a GenTL Producer for data streaming as well as register accesses. Additional to functions that control the hardware, the libraries include general purpose functions for the manipulation and display of images.

[View the full product spec online](#)

Our family of **FireBird frame grabbers** includes solutions for high-speed requirements, low-cost options, CoaXPress or Camera Link interfaces and longer cable set-ups. [View the full range online](#). We also supply **camera interface boards**, **embedded systems** and **accessories**. Take a closer look at [our solutions](#).

Embedded systems



Camera solutions






Cameras



Frame grabbers

Active Silicon is a leading manufacturer of imaging products, embedded systems and custom solutions. If you would like to stay informed of upcoming events, products and news in general, then please follow us on one of our social media channels below.



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