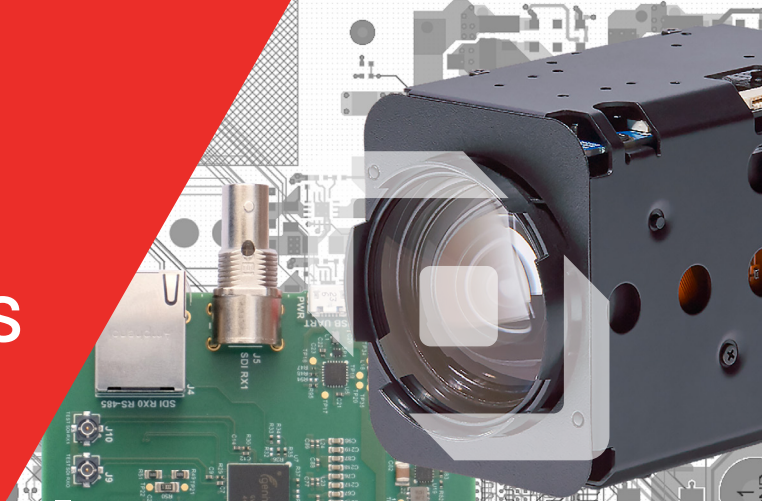# Active Silicon

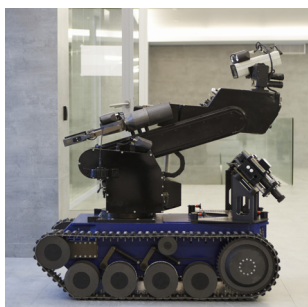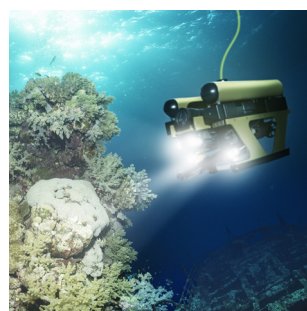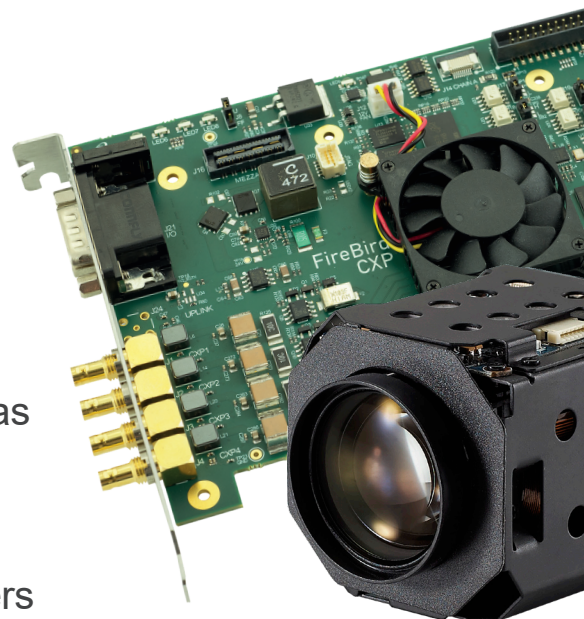# COMPUTER IMAGING PRODUCTS

Imaging solutions for industrial, medical, defense, surveillance and automation applications

Our Product Range

Active Silicon designs and manufactures advanced imaging products, embedded systems and custom solutions for a wide spectrum of applications.

- AF-Zoom Block Cameras and Board Cameras
- Camera Interface & Processor
- Boards Video Adapters
- CoaXPress and Camera Link Frame Grabbers
- Fanless Machine Vision PCs
- Custom Embedded Systems

Block and Board Cameras

- Light weight (from 26-470g)
- Low power consumption
- Fast autofocus
- Optical zoom up to 55x

- Full HD and 4K options
- Rolling and global shutter models
- Advanced camera functions
- Customization available

Harrier AF-Zoom Block Cameras

A whole range of cameras and options guarantees flexibility

Full HD Cameras

4K Cameras

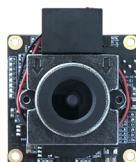## Harrier Camera Interface Boards

Extending the possibilities of LVDS block cameras

- Video output formats available: Ethernet IP, USB 3 (UVC), HDMI, 3G-SDI and MIPI CSI-2
- Compatible with Sony FCB-EV9500L and EV9520L, Tamron MP3010M-EV and Harrier AF-Zoom cameras
- Up to 1080p60 output

Oriole HD-SDI Board Cameras

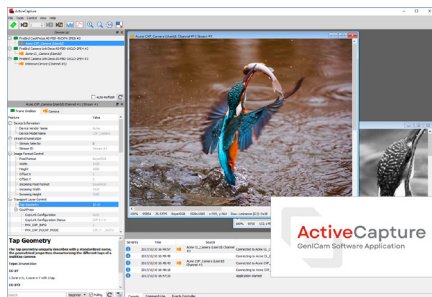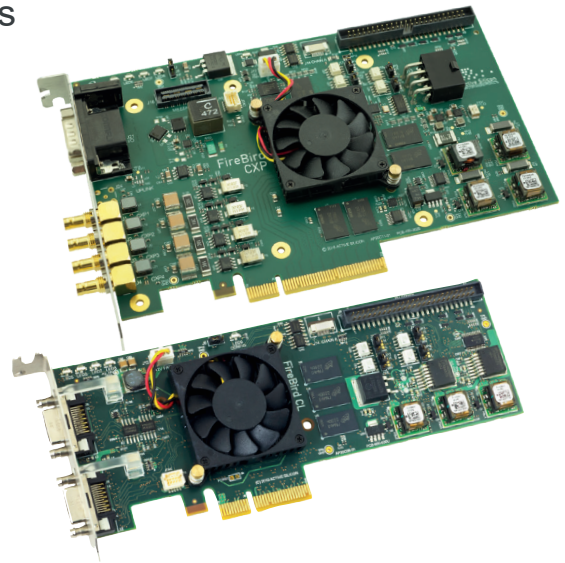- Switchable IR-cut filter
- 32mm x 32mm x 10mm

- Global shutter sensor
- 3x optical zoom

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CAMERAS

FireBird Frame Grabbers

CoaXPress® **CAMERA Link®**

- For CoaXPress and Camera Link cameras
- High-speed acquisition in real time due to ActiveDMA technology
- No CPU overhead
- Comprehensive I/O
- GenICam compliant (GenTL Producer)
- GPU processing supported
- Windows and Linux supported
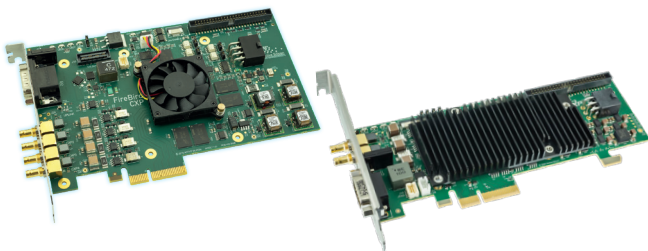- All common machine vision libraries supported

Software Support

FireBird cards are supported by **ActiveSDK**, Active Silicon's software development kit.

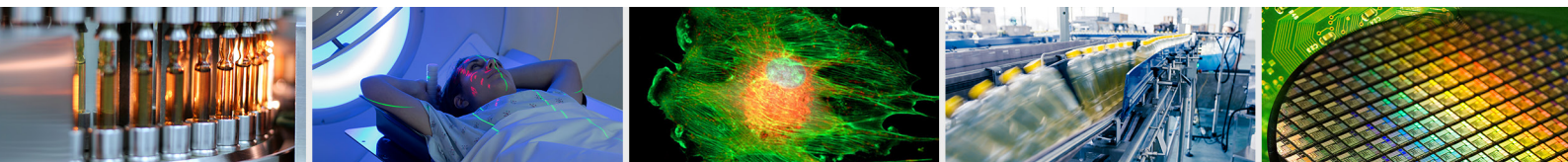**ActiveCapture**, our front-end software, provides camera and frame grabber control.

CoaXPress Frame Grabbers | Camera Link Frame Grabbers

- Quad, Dual and Single CXP boards
- CXP-12 products (up to 12.5 Gbps per connection); incl. CXP over Fiber (QSFP10)
- Precise triggering capability
- Cable support: <100m; over fiber: <10km
- PoCXP (Power over CoaXPress)

- Base, Medium, Full and 80-bit
- Support for Camera Link v2.1
- PoCL (Power over Camera Link)
- Full GenICam support for CLProtocol and GenCP cameras
- Embedded formats e.g. cPCI Serial

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FRAME GRABBERS

Embedded Systems

Oncilla Machine Vision Computer

- Industry-grade high-performance computer
- For CoaXPress or Camera Link vision systems
- Configurable and modular (customization)
- Multiple expansion and extensive I/O
- Embedded FireBird frame grabber
- Compact, robust and highly reliable
- Long product life for long-term supply

Custom Embedded System

- Rugged, custom COM Express carrier card
- Wide range of high-performance processors
- Any type of video acquisition
- Any standard PC interface
- Flexible extension options
- For system control, video processing etc.
- Same form, fit and function for many years

Our Custom Design Services

We will guide and manage your project at every stage, from planning and design to prototyping and final production.

Quality Assurance

Critical steps like R&D, system assembly, testing and supply chain management are all managed in-house to ensure high quality and reliability.

Skills and Capabilities

- System / Hardware / FPGA design
- Software development and applications
- Fast turn-around prototyping
- Manufacturing with established partners

EMBEDDED SYSTEMS

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