

# ActiveSDK

## Software Development Kit

- SDK for the FireBird series of frame grabbers
- Allows rapid system development and integration
- Provides an easy-to-use interface with in-depth control

### FEATURES

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- Supports Camera Link and CoaXPress camera interfaces.
- Comprehensive library functions and documentation.
- Supported environments include 64-bit Windows, Linux and QNX.
- Common API across all supported operating systems.
- Comprehensive suite of C, C++ and C# example applications with full source code.
- GenICam and NVIDIA GPUDirect for Video examples provided.
- Libraries are supplied as Windows dynamic link libraries (.dll) and Linux shared object (.so) libraries.



### OVERVIEW

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**ActiveSDK** is designed for OEMs and integrators using FireBird frame grabbers. Comprehensive example applications are included along with optimized libraries for a variety of operating systems. The API (application programming interface) is consistent across all operating systems and hardware platforms allowing easy migration.

**ActiveSDK** provides components to develop applications using:

- PHX Library (PHX) – provides setup, acquisition and control features.
- Active Display Library (ADL) – allows captured buffers to be displayed easily (Windows only).
- Active Image Processing Library (TMG) – provides image file open/save, image format conversion (e.g. Bayer to RGB), JPEG compression and other image processing functions.
- Active Browser – provides a widget that can display any number of GenApi nodemaps, each in their own tab. The Active Browser library also provides a way to integrate the widget within an MFC program (Windows only).
- GenTL Producer - GenICam compliant driver package.
- GPUDirect for Video –accelerated acquisition and processing, including DMA direct to the GPU.

The core libraries provide a highly optimized, efficient and reliable environment for the development of high-speed and demanding image applications.



Comprehensive documentation is provided for all parts of the SDK, including Developer's Guides, and application examples with full source code.

## SUPPORTED DEVELOPMENT ENVIRONMENTS

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- Windows 11 (64-bit), Windows 10 (64-bit) – support for Visual Studio 2008 and onwards.
- Linux (64-bit) – GNU Compiler Collection (relevant to particular Linux distribution).
- QNX Neutrino RTOS v6.5, v6.6 and v7.0 – OEM use only, contact Active Silicon for quotation.

## ORDERING INFORMATION

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PART NUMBER	DESCRIPTION
AS-ACTIVESDK-WIN	Software Development Kit for Windows (64-bit) operating system.
AS-ACTIVESDK-LIN	Software Development Kit for Linux (64-bit) operating system.
AS-ACTIVESDK-QNX	Software Development Kit for QNX operating system – contact Active Silicon for details.

## THE FIREBIRD RANGE

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High performance CoaXPress CXP-12 and CXP-6 frame grabbers in single, dual and quad configurations. Camera Link frame grabbers in Base, Medium, Full, 80-bit (Deca) configurations.



## CONTACT DETAILS

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### Headquarters:

Active Silicon Ltd  
1 Waterside Court, Waterside Drive,  
Langley, Berks, SL3 6EZ, UK.

Tel: +44 (0)1753 650600  
Email: [info@activesilicon.com](mailto:info@activesilicon.com)  
Website: [www.activesilicon.com](http://www.activesilicon.com)

### North America:

Active Silicon, Inc.  
479 Jumpers Hole Road, Suite 301,  
Severna Park, MD 21146, USA.

Tel: +1 410-696-7642  
Email: [info@activesilicon.com](mailto:info@activesilicon.com)  
Website: [www.activesilicon.com](http://www.activesilicon.com)