# PHX SDK
# Software Development Kit

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

## FEATURES

- Supports Camera Link, CoaXPress and HD-SDI camera interfaces.
- Comprehensive library functions and documentation.
- Supported environments include 64bit Windows and Linux as well as macOS X 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.
- Support for running 32-bit applications in a 64-bit environment.
- Libraries are supplied as Windows dynamic link libraries (.dll), Linux shared object (.so) libraries and Mac OS X Frameworks.

## OVERVIEW

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

The **PHX Software Development Kit** contains the following core components:

- PHX Library (PHX) − provides setup, acquisition and control features.
- Active Display Library (ADL) − allows captured buffers to be displayed easily.
- 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.

The core libraries provide a highly optimised, efficient and reliable environment for the development of very 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.

The price of the SDK includes 1 year's support.  Further maintenance and support is available at a nominal yearly charge, which includes software upgrades and technical support.

## SUPPORTED DEVELOPMENT ENVIRONMENTS

- Windows 10, Windows 7 (64-bit for both versions) – support for Visual Studio.
- Linux (64-bit) – GNU Compiler Collection (relevant to particular Linux distribution).
- For QNX Neutrino RTOS v6.5, v6.6 and v7.0 – OEM use only, contact Active Silicon for quotation.
- macOS – OEM use only, contact Active Silicon for quotation.

## ORDERING INFORMATION

| PART NUMBER | DESCRIPTION |
|---|---|
| AS-PHX-SDK-WIN | Software Development Kit for Windows (64-bit) operating system. |
| AS-PHX-SDK-LIN | Software Development Kit for Linux (64-bit) operating system. |
| AS-PHX-SDK-MAC | Software Development Kit for macOS X - contact Active Silicon for details. |
| AS-PHX-SDK-QNX | Software Development Kit for QNX operating system – contact Active Silicon for details. |

## THE FIREBIRD & PHOENIX RANGE

- High performance CoaXPress frame grabbers in single, dual and quad configurations.
- Camera Link frame grabbers, including 80-bit (Deca) and Dual-80-bit support.



**Active Silicon**
COMPUTER IMAGING PRODUCTS
A SOLID STATE PLC GROUP COMPANY

## CONTACT DETAILS

*Europe & APAC:*

Active Silicon Ltd
Pinewood Mews, Bond Close, Iver,
Bucks, SL0 0NA, UK.

| Tel: | +44 (0)1753 650600 |
|---|---|
| Fax: | +44 (0)1753 651661 |
| Email | info@activesilicon.com |
| Website: | www.activesilicon.com |

*Americas:*

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

| Tel: | +1 410-696-7642 |
|---|---|
| Fax: | +1 410-696-7643 |
| Email: | info@activesilicon.com |
| Website: | www.activesilicon.com |

26-May-2021