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

- Supports Camera Link and CoaXPress camera interfaces.
- Comprehensive library functions and documentation.
- Supported environments include 64-bit Windows and Linux as well as macOS 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), Linux shared object (.so) libraries and macOS Frameworks.

OVERVIEW

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

- Windows 10, Windows 7 (64-bit for both versions) – support for Visual Studio 2008 up to 2017.
- 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-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-MAC	Software Development Kit for macOS – contact Active Silicon for details.
AS-ACTIVESDK-QNX	Software Development Kit for QNX operating system – contact Active Silicon for details.

THE FIREBIRD RANGE

- CoaXPress frame grabbers, including single, dual and quad CXP-6 support.
- Camera Link frame grabbers, including 80-bit (Deca) and dual-80-bit support.

Active Silicon
COMPUTER IMAGING PRODUCTS

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