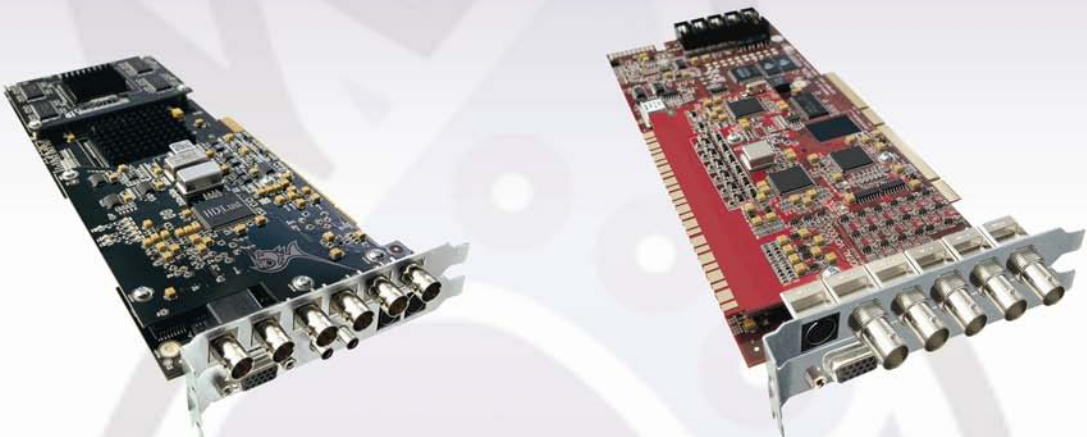


OEM Developer Solutions

Software Developers Kit



bluefish444

The Professionals' Choice

Dual Link Output, Single Link I/O with Down-conversion & Audio

HD|Lust



- HD/SD SDI I/O
- 10/8 bit RGB/YUV, DPX, Cineon, QuickTime V210 support
- Dual link 4:4:4, 4:2:2:4, 4:4:4:4 I/O
- Single link 4:2:2 I/O
- Real-time hardware color space conversion
- Hardware overlay for internal keying
- Surround Sound 7.1/5.1 audio monitoring
- 8 channels of S/P DIF audio I/O
- Real time hardware HD to SD down conversion
- Genlock

Single Link I/O with Down-conversion & Audio

HD|Fury



- HD/SD SDI I/O
- 10/8 bit RGB/YUV, DPX, Cineon, QuickTime V210 support
- Single link 4:2:2 I/O
- Real-time hardware color space conversion
- Hardware overlay for internal keying
- Surround Sound 7.1/5.1 audio monitoring
- 8 channels of S/P DIF audio I/O
- Real time hardware HD to SD down conversion
- Genlock

Dual Link Output, Single Link I/O with Down-conversion

HD|Vengeance



- HD/SD SDI I/O
- 10/8 bit RGB/YUV, DPX, Cineon, QuickTime V210 support
- Dual link 4:4:4, 4:2:2:4, 4:4:4:4 Output
- Single link 4:2:2 I/O
- Real-time hardware color space conversion
- Hardware overlay for internal keying
- Video and Key Output
- Real time hardware HD to SD down conversion
- Genlock

Dual Link Output with Down-conversion

HD|IridiumXP



- HD/SD SDI Output
- 10/8 bit RGB/YUV, DPX, Cineon, QuickTime V210 support
- Dual link 4:4:4, 4:2:2:4, 4:4:4:4 Output
- Single link 4:2:2 Output
- Real-time hardware color space conversion
- Video and Key Output
- Real time hardware HD to SD down conversion
- Genlock

Dual Link Output

HD|Iridium



- HD/SD SDI Output
- 10/8 bit RGB/YUV, DPX, Cineon, QuickTime V210 support
- Dual link 4:4:4, 4:2:2:4, 4:4:4:4 Output
- Single link 4:2:2 Output
- Real-time hardware color space conversion
- Video and Key Output
- Genlock

Contact

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Standard Definition SDI I/O and Analog I/O



SDI/Analog I/O, Dual Link & Single Link I/O with Digital Audio I/O

SD|Envy

- SD SDI 10 bit RGB/YUV
- 12 bit Analog Component Composite, S-Video I/O, RGB Output
- SDI to Analog, Analog to SDI conversion on board
- Single link 4:2:2 I/O
- Dual link 4:4:4, 4:2:2:4, 4:4:4:4 I/O
- Simultaneous SDI and customizable analog output
- 6 channels of AES/EBU XLR digital audio I/O
- Real-time hardware color space conversion
- Hardware overlay for internal keying
- Genlock,
- Genlock to Video input



SDI/Analog Output, Dual Link & Single Link Output with Digital Audio Output

SD|Pride

- SD SDI output 10 bit RGB/YUV
- 12 bit Analog Component, Composite, S-Video, RGB output
- Single link 4:2:2 output
- Dual link 4:4:4, 4:2:2:4, 4:4:4:4 output
- Simultaneous SDI and customizable Analog output
- 6 channels of AES/EBU XLR digital audio output
- Real-time hardware color space conversion
- Genlock



Standard Definition SDI I/O

Single Link I/O With Digital Audio I/O

Wildblue|AV

- 10 bit SD-SDI
- 10/8 bit RGB/YUV
- Single link 4:2:2 I/O
- Single link 4:2:2 YUV to 10 bit RGB conversion
- 6 channels of AES/EBU XLR digital audio I/O
- Real-time hardware color space conversion
- Hardware overlay for internal keying
- HANC pass through
- VBI
- Genlock



Dual Link Output, Single Link I/O

Deepblue I/O

- 10 bit SD-SDI
- 10 bit YUV, 8 bit YUV/RGB
- Dual Link 4:4:4:4, 4:2:2:4 output.
- Single link 4:2:2 I/O
- Genlock



Dual & Single Link SDI/Composite Output

Iridium | SD

- 10 bit SD-SDI
- 10 bit YUV, 8 bit YUV/RGB
- Dual Link 4:4:4:4, 4:2:2:4 output.
- Single link 4:2:2 output
- Analog Composite BNC output
- Genlock



Dual/Single Link Output with Audio

Iridium | AV

- 10 bit SD-SDI
- 10 bit YUV, 8 bit YUV/RGB
- Dual Link 4:4:4:4, 4:2:2:4 output.
- Single link 4:2:2 output
- Analog Composite BNC output
- 6 Channels of AES/EBU Digital Audio Output
- Genlock



Dual/Single Link Output

Deepblue Lt

- 10 bit SD-SDI
- 10 bit YUV, 8 bit YUV/RGB
- Dual Link 4:4:4:4, 4:2:2:4 output.
- Single link 4:2:2 output
- Genlock



The Bluefish444 SDK is a software development tool designed by software developers for software developers, who wish to integrate Bluefish444 hardware into their solution.

The Bluefish444 SDK provides a simple, consistent and extensible interface to all Bluefish444 hardware products. It provides a number of useful abstractions and interfaces designed to relieve the developer of direct hardware involvement freeing them to concentrate on developing.

The SDK interfaces are implemented as a C++ class and also as COM Interfaces. The SDK can be used with Microsoft Visual Studio .net, Visual C++ 6.0, Delphi and Visual Basic development tools.

Features of the Bluefish444 OEM product range

- Windows 2000 and Windows XP support
- Linux supporting 2.4 & 2.6 kernel versions
- Apple™ QuickTime™ Components
- Advanced features like DMA
- Dual Link input and output supporting 4:2:2:4 fill and key and 4:4:4/4:4:4:4
- Internal hardware overlay for logo insertion and branding
- HANC, VANC & VBI

Direct Show Filter Support

Bluefish444 provides video and audio source and render filters that support a range of features such as;

- Hardware based reference clock
- 8 and 10 bit RGB/YUV
- Capture device interfaces
- Render (playback) filters
- Full duplex support
- Audio and video sync interface
- Cropping
- Dynamic media type playback
- Drop frame notification
- 2/4/6/8 audio channels I/O
- Support for all SD and HD Bluefish444 OEM product range

SDK Functionality

An extensive set of samples and interfaces are provided making integration of Bluefish444 cards with developer applications extremely efficient. Samples and interfaces include:

- Video Capture through system memory
- Video Playback through System Memory single threaded and multi threaded versions
- Full Duplex Audio/Video single threaded and multi threaded versions
- Video Capture with Preview using DirectDraw
- How to create QuickTime and Cineon files using SDK
- How to develop with OpenGL
- How to utilize the DirectShow video render filter
- OpenGL and DirectDraw sample code
- Comprehensive Debug and release driver builds
- Support for COM interface
- Comprehensive source code libraries to reduce development times

Hardware Compatibility

Bluefish444 are constantly testing and evaluating PC hardware as it becomes available to ensure that the Bluefish444 product range is compatible with a wide range of 3rd party hardware.

The following hardware and manufactures are currently certified for use with the Bluefish444 product range;

HP, IBM, DELL, BOXX, XENON, 1BEYOND, TYAN, Super Micro, Intel, IWILL, MSI, NVIDIA, 3Dlabs, ATI, Adaptec, ATTO, ADTX, NETCELL, RAIDCORE.

<http://www.bluefish444.com/support/compatibility/hardware/>