

Low Profile Form Factor

4K 60p

12-bit Processing 8/10/12-bit SDI I/O



EPOCH | NEUTRON



Born from Epoch | 4K Supernova the smallest star is formed. Epoch | 4K Neutron a tiny star radiating immense power.

In an industry that always demands "bigger and better" Bluefish444 have yet again delivered! This time we have gone one step further, the Epoch | Neutron range packs a massive amount of power into a form factor that defies belief.

Bi-Directional I/O's provide unrivalled flexibility

Like its brethren, the Epoch | Neutrons provide flexibility like no other allowing industry standard BNC video connectors to be 3G/HD/SD SDI inputs or outputs.

World's most accessible video card

With an all new form factor Bluefish444's Epoch | Neutron range opens a whole new galaxy of options! Bluefish444 have compressed functionality of much bigger cards into a

low profile, half height PCIe video card allowing integration with rack mount, small form factor, PCIe, or Thunderbolt enclosures. A great price point allows unprecedented accessibility for all SDI I/O users from 3rd party SDK developers to video editors.

Unified hardware, drivers and SDK

The Bluefish444 unified driver extends to the Epoch | Neutron range making it fully compatible with Industry leading 3rd party content creation tools and the extensively developed Bluefish444 SDK. Platform independent hardware alongside unified Windows, Mac OS X, and Linux Drivers/SDK delivers a powerful package in every environment.

EPOCHINEUTRON + NEUTRON

Simply Smarter – Condensing the form factor

Available with a low profile or full height shield, the Epoch | Neutron cards are not only in a low profile form factor but also half the length of a full size PCIe card. Many server products, rack mounted chassis and small form factor computers have little to no room for full sized PCIe Express cards. Epoch | Neutron cards are so compact that some 2 RU servers can install up to 6 low profile Neutrons allowing unprecedented expandability in such a small space.



Thunderbolt Expansion Chassis Compatibility

Popular PCI Express and Thunderbolt expansion chassis are designed to be light and portable. The Epoch | Neutron range is compatible with them all from the smallest single slot devices right through to much larger multi-slot devices. For the full list of qualified 3rd party chassis visit **www.bluefish444.com**.

It's Smaller, so what did we lose?

Bluefish444 have condensed much of the bigger cards' functionality into a flexible, Low Profile and Half Height video card. But surely we have had to remove some features, or quality to do this, right?

Wrong! Bluefish444 have maintained the build quality and the image quality found in our bigger cards and have even added new features!

Maintaining a 12-bit processing pipeline

A 12-bit image processing pipeline is standard on all Bluefish444 video cards. This allows 8, 10 & 12-bit SDI video signals to be produced from 8, 10, 12 & 16-bit pixel formats providing the highest image quality available from your source material.

A 12-bit image pipe means that 4096 discreet values of red, green & blue are maintained per pixel; that's 64 times the colour precision of a traditional 10-bit processing pipeline!

Maintaining the highest quality RGB <=> YUV Colour Space Conversions

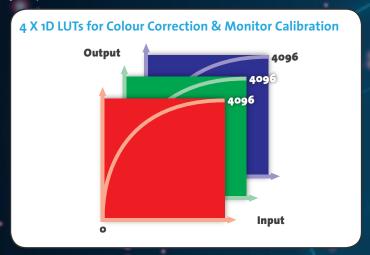
Image processing includes a fully programmable 4 x 4 x 33-bit colour matrix providing the highest quality colour space conversions that are a standard requirement in professional video workflows.

The fully programmable $4 \times 4 \times 33$ -bit colour matrix reduces colour space conversion errors and ensures the highest quality colour accuracy during capture, monitoring and mastering.



Primary Hardware Colour Corrector

When the Bluefish444 programmable matrix is combined with the onboard 1D LUTs it provides a powerful primary hardware colour corrector. 4 x 1D x 12-bit LUTs on all SDI outputs gives maximum control over lift, gamma and gain prior to monitoring or mastering your precious video assets.



NEW Low Latency Video Keyer

The new low latency hardware video keyer enables video layers to be combined in hardware with microseconds delay. This feature allows animated logo's, captions, ticker tapes, etc. to be keyed over live video feeds at full 12-bit precision and with minimum latency. The hardware keyer can also function as an image pre-multiplier to assist in previewing images with alpha data.



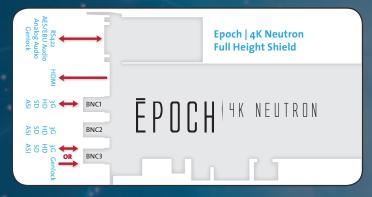
NEW HDMI 1.4 Monitoring

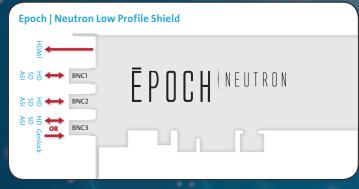
Both Epoch | Neutron cards include a cost effective HDMI 1.4a monitoring solution, with deep colour and can even extend to higher than HD resolution support.



Options, Options, and more Options

With the Epoch | Neutron range there is a variety of both low profile and full height shield options allowing the same physical hardware to be used in any number of applications and inside any number of enclosures or chassis.





Flexible, Cross Platform SDK support

Our Windows, Linux and Mac OS X SDK's share a common API allowing developers to port from one platform to another with greater ease and efficiency. An extensive set of samples and interfaces are provided making integration of Bluefish444 cards with developer applications extremely efficient. Please visit our website for further information or to download our "free" SDK.







Bluefish444 Symmetry software

Symmetry is Bluefish444's integrated 2K/HD/SD 3D and DI acquisition, review and playback software for Windows included free with the Epoch | Neutron range of video cards.











Record 1 or 2 streams of HD/SD to uncompressed or DNxHD media whilst simultaneously editing in Avid Media Composer or Adobe Premiere with the Epoch | Neutron range.









Customized shield configurations provide direct RS422 connection, 8 channel AES/EBU I/O, LTC I/O and analog audio monitoring as alternate configurations allowing your system to achieve the I/O you need on all the right interfaces.

Feature	Epoch Neutron	Epoch 4K Neutron
2 out	YES	YES
2 in	YES	YES
1 in 1 out (1 fill + 1 key OUT)	YES	YES
1.5G SDI	YES	YES
Dual link SDI	YES	YES
4224 SDI	YES	YES
4444 SDI	YES	YES
HDMI out to HD/2K	YES	YES
Keyer	YES	YES
16-bit Half Float pixel format	YES	YES
Colour Space conversion	YES	YES
Interlocking Genlock	YES	YES
₃G SDI	NO	YES
4K SDI support (2 x 3G)	NO	YES
HDMI out to 4K	NO	YES*
LUT 1D	NO	YES

*Available with future free firmware update.

For a full list of the Epoch | Neutron range of optional shields please visit www.bluefish444.com

Cross platform support with Industry leading 3rd party software

Avid Media Composer

support through the Open IO plug-in architecture.











Adobe Creative Cloud

support through the Adobe Mercury Transmit plug-in architecture.











ASSIMILATE SCRATCH®

support through a Bluefish444 plug-in.











Other compatible software

Other compatible software for the Epoch | Neutron range.







Solition	Feature	Epoch	Epoch	Feature	Epoch	Epoch
1936 Ves	reature	Neutron	4K Neutron	reature	Neutron	4K Neutron
PUISG Yes Ye	SDI Video			Supported YUV SDI Video Modes		
Second S	SD	Yes	Yes	720 x 486i @ 29.97fps NTSC	Yes	Yes
Dual link 5G	HD 1.5G	Yes	Yes	720 x 576i @ 25fps PAL	Yes	Yes
Display Disp	3G	No	Yes	1280 x 720p @ 23.976, 24, 25, 29.97, 30, 50, 59.94, 60fps	Yes	Yes
Quad Link 3G No	Dual Link 1.5G	Yes	Yes	1920 x 1080i @ 25, 29.97, 30fps	Yes	Yes
Qual Link 3G	Dual Link 3G	No	Yes	1920 x 1080P/PsF @ 23.976, 24, 25, 29.97, 30fps	Yes	Yes
Maximum Charmebs 2 4 208 x 086pP7\$ € 28 30 9, 26 A 75 39 9/3 pffys Yes Ves R8 notz-bill 44, 24 5 DI Yes Yes Pes R8 notz-bill 44, 24 5 DI Yes Yes Pes R8 notz-bill 44, 24 5 DI Yes Yes Pes R8 notz-bill 44, 24 5 DI Yes Yes Yes Shirt-bill 44, 24 5 DI Yes			No			Yes
Roof 12-bit 4,224.50						
## Supported RGB 5DI Video Modes						
MOM1-La				2048 x 1080P/PsF @ 48, 50, 59.94, 60fps	Yes (DL only)	Yes
## First Brine Code ## First	8/10/12-bit 4:2:2:4 SDI	Yes	Yes	Supported RGB SDI Video Modes		
SOME	HDMI 1.4a				Yes (DL only)	Yes
UHD (3840 x 1600) @ 24, 25, 29, 30	SD/HD/2K	Yes	Yes		Yes (DL only)	Yes
UHD (340 x x 160) @ 24, 25, 29, 30	ARC	No	No		-	Yes
## 20 A 20 A 20 24 25 29 39 30 75 75 25 25 25 25 25 25	UHD (3840 x 2160)@ 24, 25, 29, 30	No	Yes*			Yes
Supported AK YUN 5DI Video Modes SMPTE 2036-1		No	Yes*			Yes
Sembook Semb		No	Yes*	C I. L. KWINGENING L. M. L. CMPTT C.		
Seli-Level/Tri-Level Cenlock Yes Yes Nes	Deep Color	Yes	Yes			
Bi-Level/Tri-Level Cenlock A	Genlock					
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HANC RP188 timecode RP188 timecode RP188 timecode RP188 timecode Yes Yes Yes Yes Yes Yes Yes Y				4090 x 2100p @ 46, 50, 59.94, 001ps	INO	165
RP188 timecode				Supported 4K RGB SDI Video Modes SMPTE 2036-1		
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Video Payload ID Custom Packets Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	RP188 timecode	Yes	Yes	4096 x 2160p @ 23.976, 24, 25, 29.97, 30fps	No	Yes**
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VANC Closed captioning Yes Yes Yes Yes Custom Packets Addio Signals 16 channels of Embedded Audio Input per SDI 8 Channels of Fembedded Audio Uptut per SDI 9 Channels of Fembedded Audio Uptut per SDI 16 Channels of Fembedded Audio Uptut per SDI 18 Channels of AES ID3 Input(unbalanced, BNC) 2 channels of AES ID3 Input(uptalanced, BNC) 2 channels of AES ID3 Input(uptalanced, BNC) 3 Channels of Fembedded Audio Uptut per SDI 4 Ves 4 Channels of AES ID3 Uptut (upbalanced, BNC) 4 Ves 5 Ves 8 Channels of AES ID3 Uptut (upbalanced, BNC) 5 Ves 6 Compatible With Popular Retail Apps Addio Creative Cloud® Yes Yes Yes Addio Creative Cloud® Yes Yes Yes Assimilate Scratch® Yes Yes Yes Porastic Technologies Quick Clip Pro® Yes Yes Yes Yes Porastic Technologies Agé Copo® Yes Yes Yes Telestream Wirecast® - Direct Show (windows) Yes Yes Yes The Foundry Nuke® - Monitor out support Yes Yes Yes The Foundry Nuke® - Monitor out support Yes	,				V	V
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Automatic Cross-Locking and intelligent output phasing across formats LTC I/O (optional) Audio sample rate converters (MR2) Master Routing Resource ISIM (Input Stream integrity management) RS 422 Serial Port 4-lane PCI-Express (8 and 16 lane compatible) Full Duplex DMA data transfer bandwidth 1.1GB/s Yes Yes Yes Yes Yes Yes Yes Y		Yes	Yes	- · · · · · · · · · · · · · · · · · · ·	Yes	Yes
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across formats LTC I/O (optional) Yes Yes Yes Audio sample rate converters (MR2) Master Routing Resource ISIM (Input Stream integrity management) RS 422 Serial Port 4-lane PCI-Express (8 and 16 lane compatible) Full Duplex DMA data transfer bandwidth 1.1GB/s Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	Automatic Cross-Locking and intelligent output phasing	Yes	Yes	Drastic Technologies 4K Scope®	Yes	Yes
Audio sample rate converters (MR2) Master Routing Resource Yes Yes Yes ISIM (Input Stream integrity management) RS 422 Serial Port 4-lane PCI-Express (8 and 16 lane compatible) Full Duplex DMA data transfer bandwidth 1.1GB/s Yes Yes Yes Yes Yes Yes Yes Y	across formats	.,		Telestream Wirecast® - Direct Show (windows)	Yes	Yes
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Full Duplex DMA data transfer bandwidth 1.1GB/s Yes Yes				**Requi	res 2 x Epoch 4K Ne	utron synchronised.
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				Epoch Neutron + 4K Neutron co	me with a two	year warranty

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