DELIVER THE HIGHEST QUALITY 4K/2K/HD SDI VIDEO

PCIe INTERFACE

HDMI OUTPUT

2K/HD/SD SDI I/O

AUX REFERENCE INPUT

HDMI OUTPUT

2K/HD/SD SDI I/O

PCIe INTERFACE

120MM

185MM

BREAKOUT CABLE

HDMI OUTPUT

4K/UHD 2K/HD/SD SDI I/O

PCIe INTERFACE

4K HDR

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

12-BIT PROCESSING

THUNDERBOLT.

SDI 12/10/8-BIT

LOW PROFILE FORM FACTOR
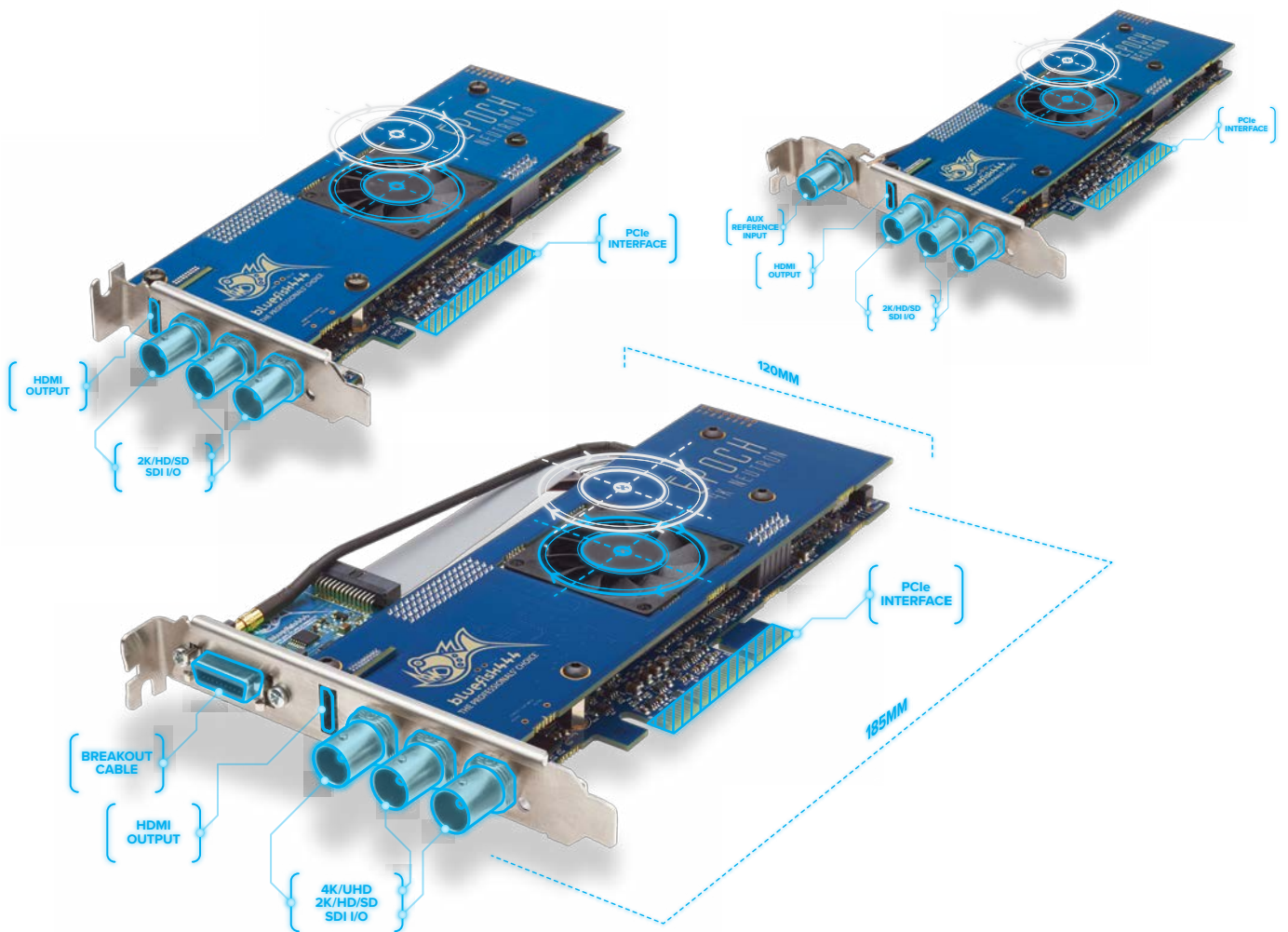
INTEGRATE BLUEFISH444 INTO THE FOLLOWING VERTICAL MARKETS

PRODUCT BROCHURE

ALL CARDS IN THE BLUEFISH444 EPOCH | NEUTRON RANGE COME WITH THE FOLLOWING FEATURES:
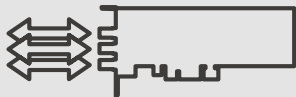
Bi-directional I/O's provide unrivalled flexibility with industry standard BNC video connectors each allowing 3G/HD/SD-SDI inputs or outputs.

Thunderbolt Expansion Chassis Compatibility with popular manufacturers.

UHD HDMI Monitoring supports and extends to UHD resolutions.*

*UHD resolutions available with Epoch | 4K Neutron models only. Epoch | Neutron has a maximum resolution of HD.

Low-latency Video Keyer allowing video layers to be combined in hardware with just microseconds of delay.

Maintaining a 12-bit processing pipeline means that 4096 discrete values of red, green & blue are maintained per pixel; that's 4 times the colour precision of traditional 10-bit processing!
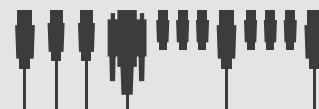
Maximum Connectivity including RS-422, 8 channels of AES EBU Audio, 2 channels of analogue audio, and auxilliary genlock.
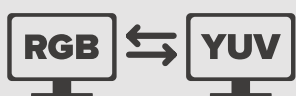
Maintaining the highest quality RGB <=> YUV includes a fully programmable 4 x 4 x 33-bit colour matrix colour space conversion.

Primary Hardware Colour Corrector using the Bluefish444 programmable matrix combined with the on-board 1D LUTs.
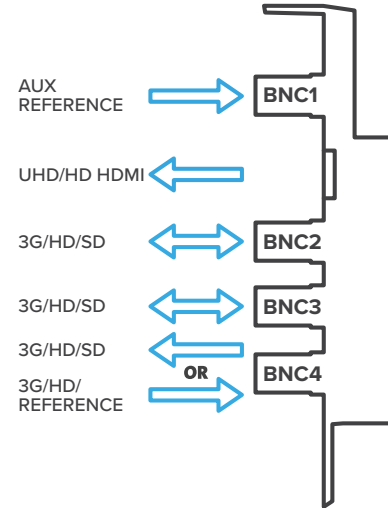
ĒPOCH NEUTRON

EB3007B — $1,995

ĒPOCH 4K NEUTRON

EB3006B — $2,695

- 3 x HD/SD SDI
- 2K/HD up to 30 fps
- HD HDMI Preview

- Full-height, Half-length PCIe
- AUX Reference Input BNC

- 3 x 3G/HD/SD-SDI
- 4K/UHD up to 30 fps
- UHD/HD HDMI Preview

| 4K UHD | HDMI | 12-BIT PROCESSING | THUNDERBOLT. | SDI 12/10/8-BIT | ⊞ | ⌘ | SDK |

AUX REFERENCE → BNC1
UHD/HD HDMI ←
3G/HD/SD ↔ BNC2
3G/HD/SD ↔ BNC3
3G/HD/SD ←
3G/HD/REFERENCE → **OR** BNC4

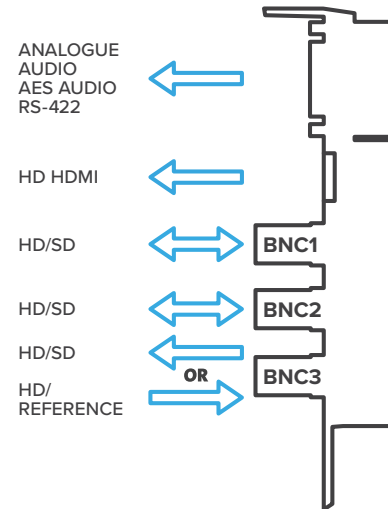**HD** **SD** RANGE   **3G** RANGE

ĒPOCH NEUTRON

EB3007C — $2,095

ĒPOCH 4K NEUTRON

EB3006C — $2,795

- 3 x HD/SD SDI
- 2K/HD up to 30 fps
- HD HDMI Preview

- Full-height, Half-length PCIe
- AES / ANA / RS-422 / AUX Reference Input

- 3 x 3G/HD/SD-SDI
- 4K/UHD up to 30 fps
- UHD/HD HDMI Preview

| HDMI | 12-BIT PROCESSING | THUNDERBOLT. | SDI 12/10/8-BIT | ⊞ | ⌘ | SDK |

ANALOGUE AUDIO AES AUDIO RS-422 ←
HD HDMI ←
HD/SD ↔ BNC1
HD/SD ↔ BNC2
HD/SD ←
HD/REFERENCE → **OR** BNC3

HD **SD** RANGE   **3G** RANGE
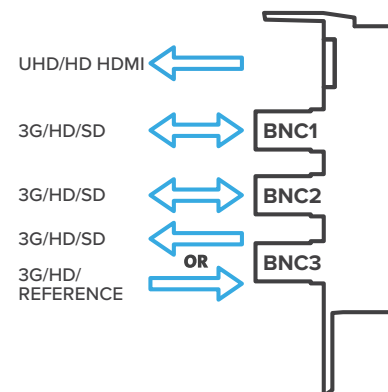
ĒPOCH NEUTRON LP

EB3007F — $1,995

ĒPOCH 4K NEUTRON LP

EB3006F — $2,695

- 3 x HD/SD SDI
- 2K/HD up to 30 fps
- HD HDMI Preview

- Low-profile, Half-length PCIe

- 3 x 3G/HD/SD-SDI
- 4K/UHD up to 30 fps
- UHD/HD HDMI Preview

| 4K UHD | HDMI | 12-BIT PROCESSING | THUNDERBOLT. | SDI 12/10/8-BIT | ⊞ | ⌘ | SDK |

UHD/HD HDMI ←
3G/HD/SD ↔ BNC1
3G/HD/SD ↔ BNC2
3G/HD/SD ←
3G/HD/REFERENCE → **OR** BNC3

FEATURE	EPOCH | NEUTRON		EPOCH | NEUTRON LP	EPOCH | 4K NEUTRON		EPOCH | 4K NEUTRON LP
Part Number	EB3007B	EB3007C	EB3007F	EB3006B	EB3006C	EB3006F
MSRP (USD)	$1,995	$2,095	$1,995	$2,695	$2,795	$2,695
Max number of Bi-directional SDI I/Os	3		3	3		3
SD-SDI/1.5G HD-SDI/Dual Link 1.5G (4:2:2:4/4:4:4:4)	YES		YES	YES		YES
3G-SDI (Level A+B)/Dual Link 3G (Level A+B)	NO		NO	YES		YES
Quad Link 1.5/Quad Link 3G (Level A+B)	NO		NO	NO		NO
HD HDMI Preview	YES		YES	YES		YES
UHD/HD HDMI Preview	NO		NO	YES		YES
Half-length, Full-height PCIe	YES		NO	YES		NO
Half-length, Low-profile PCIe	NO		YES	NO		YES
Reference Input BNC	YES		YES	YES		YES
Dedicated AUX Reference Input	YES	NO	NO	YES	NO	NO
Breakout Cable *8 x AES Audio I/O, 2 x Analogue Audio Output, RS-422, Auxiliary Reference Input*	NO	YES	NO	NO	YES	NO

*Please visit **bluefish444.com/neutron** for more information on available options.*

BLUEFISH444 SOFTWARE

IngeSTore
- 4 channels 3G/HD/SD capture
- Free Uncompressed, DVCPro, DVHD codecs
- Optional codecs are available
- Optional Edit-While-Record workflows
- Optional REST API and HTTP client

IngeSTream
- Multi-channel 3G/HD/SD
- SDI to NDI streaming

COMING SOON!

Bluefish444 SDK
- Allows developers to integrate Bluefish444 video cards
- Available across Windows, macOS and Linux systems
- Easy-to-follow sample apps with C interface
- DirectShow, GPUDirect, DirectGMA plus more

CROSS-PLATFORM SUPPORT WITH INDUSTRY-LEADING 3RD-PARTY SOFTWARE

For a comprehensive and up-to-date list of supported software, visit **bluefish444.com/software**

Bluefish444 | Telephone: +61 3 9682 9477 | **Fax:** +61 3 9328 2031 | info@bluefish444.com
For worldwide reseller and distributor contact information, please go to **bluefish444.com/contacts**