DELIVER THE HIGHEST QUALITY 4K/2K/HD VIDEO FOR YOUR BROADCAST, FILM AND TELEVISION PRODUCTION WORKFLOWS WITH THE EPOCH | NEUTRON RANGE
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.

**4K UHD HDMI Monitoring**
supports and extends to 4K UHD resolutions.*

*4K UHD resolutions available with Epoch | 4K Neutron + 4K Neutron TURBO models only. Epoch | Neutron has a maximum resolution of 2K.

**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 auxiliary 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.
**Epoch Neutron**

- 2K/HD/SD SDI/HDMI
- 2K up to 60 PS
- 2K HDMI
- Full-height, Half-length PCIe
- AES / ANA / RS-422 / AUX GENLOCK; **OR**
- AUX GENLOCK BNC

**Epoch Neutron LP**

- 2K/HD/SD SDI/HDMI
- 2K up to 60 fps
- 2K HDMI
- Low-profile, Half-length PCIe

**Epoch 4K Neutron**

- 4K/HD/SD SDI/HDMI
- 4K up to 30 fps
- 4K HDMI
- Full-height, Half-length PCIe
- AES / ANA / RS-422 / AUX GENLOCK; **OR**
- AUX GENLOCK BNC

**Epoch 4K Neutron LP**

- 4K/HD/SD SDI/HDMI
- 4K up to 30 fps
- 4K HDMI
- Low-profile, Half-length PCIe

**Epoch 4K Neuron Turbo**

- 4K/HD/SD SDI/HDMI
- 4K up to 60 fps
- 4K HDMI
- Full-height, Half-length PCIe
- AES/ANA/RS-422

**Epoch 4K Neuron Turbo LP**

- 4K/HD/SD SDI/HDMI
- 4K up to 60 fps
- 4K HDMI
- Low-profile, Half-length PCIe

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Price:

- **Epoch Neutron B**: $1,695
- **Epoch Neutron C**: $1,795
- **Epoch 4K Neutron B**: $2,095
- **Epoch 4K Neutron C**: $2,195
- **Epoch 4K Neuron Turbo**: $3,995
- **Epoch 4K Neuron Turbo LP**: $3,995
### Bluefish444 Symmetry

Bluefish444 Symmetry is a proprietary integrated DI acquisition, review and play out software for Windows and is bundled FREE with all Bluefish444 video I/O cards.

### Bluefish444 IngeSTore

Bluefish444 IngeSTore is a multi-channel ingest tool capable of up to four independent streams of SD or HD video from separate SDI sources. Bundled FREE with all Bluefish444 video I/O cards.

### Bluefish444 SDK

Bluefish444 SDK is designed for developers who wish to integrate Bluefish444 video products into their own solutions, across Windows, macOS and Linux systems.

### AVAILABLE FROM

For a comprehensive and up-to-date list of supported software, contact sales@jbanda.com

### ADDITIONAL CODEC OPTIONS

Capture directly to Avid MXF Op-Atom files, ready to use within Avid Media Composer and other compatible applications.

Capture directly to widely used compressed file formats ready for use within your video production or post-production workflow. Supports Edit-While-Record.

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

For a comprehensive and up-to-date list of supported software, contact sales@jbanda.com

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### Feature Table

<table>
<thead>
<tr>
<th>Feature</th>
<th>EPOCH</th>
<th>NEUTRON</th>
<th>EPOCH</th>
<th>NEUTRON LP</th>
<th>EPOCH</th>
<th>4K NEUTRON</th>
<th>EPOCH</th>
<th>4K NEUTRON LP</th>
<th>EPOCH</th>
<th>4K NEUTRON TURBO</th>
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<tbody>
<tr>
<td>Max number of Bi-directional SDI I/Os</td>
<td>3</td>
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<tr>
<td>SD-SDI/1.5G HD-SDI/Dual Link 1.5G (4:2:2:4/4:4:4:4)</td>
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<td>3G-SDI (Level A+B)/Dual Link 3G (Level A+B)</td>
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<td>Quad Link 1.5/Quad Link 3G (Level A+B)</td>
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<tr>
<td>2K/HD/SDI (Output)</td>
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<td>4K HDMI (Output)</td>
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<td>Half-length, Full-height PCIe</td>
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*Available as an alternative configuration, EB3006ZFF. Please visit bluefish444.com/neutron for more information on available options.*

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[JB&A Distribution] Phone: +415 256 2800  | Fax: +415 256 2811  | sales@jbanda.com