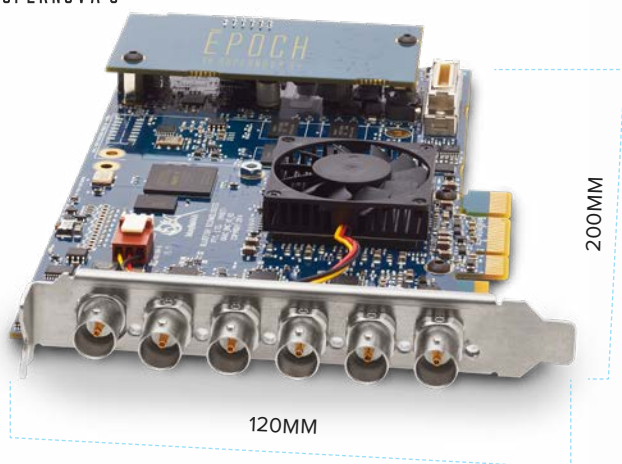
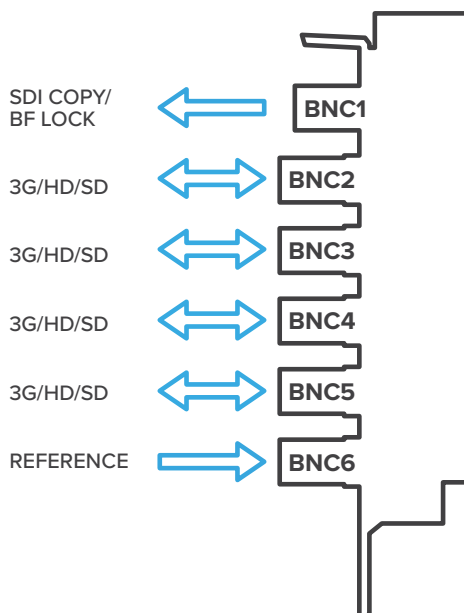
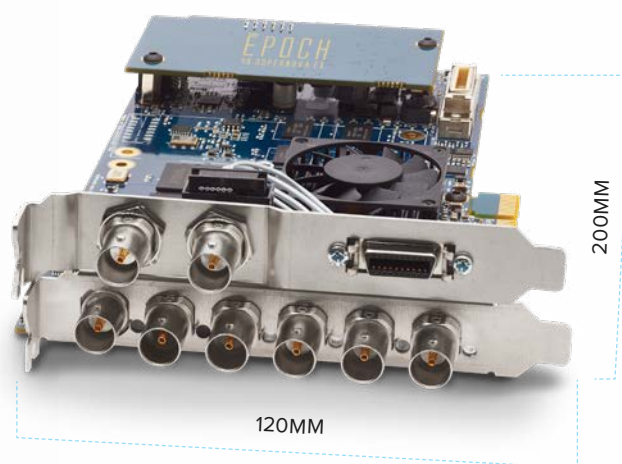


ACHIEVE MULTIPLE WORKFLOWS WITH THE FLEXIBILITY
OF EPOCH | 4K SUPERNOVA S+

EPOCH
4K SUPERNOVA S+



EPOCH
4K SUPERNOVA S+ EX



FEATURE	EPOCH 4K SUPERNOVA S+
SD-SDI	4
1.5G HD-SDI	4
3G-SDI (Level A+B)	4*
Dual Link 1.5G (4:2:2:4/4:4:4:4)	YES
Dual Link 3G (Level A+B)	YES
Quad Link 1.5G	YES
Quad Link 3G (Level A+B)	YES
Dedicated Reference Input	YES
Low-latency hardware keyer	YES
Colour space converter	YES
Customisable pixel formats	YES
5th BNC SDI Copy/BF Lock	YES
Breakout cable	YES^

*Dependant on available PCIe bandwidth. ^Available on Epoch | 4K Supernova S+ EX only.



SPECIFICATIONS	EPOCH 4K SUPERNOVA S+	EPOCH 4K SUPERNOVA S+ EX
Width	120MM	120MM
Length	200MM	200MM
Internal Clearance (L)	184MM	184MM
Height	1 PCIE SLOTS	2 PCIE SLOTS
Weight	200G	300G

VIDEO I/O**SDI VIDEO**

SD SMPTE 295M	4
HD 1.5G SMPTE 292M	4
3G (Level A+B) SMPTE 424M	4*
Dual Link 1.5G SMPTE 372M	YES
Dual Link 3G	YES
Quad Link 1.5G SMPTE 2036-1	YES
Quad Link 3G SMPTE 2036-1	YES
Maximum video channels	4
12/10/8-bit 4:4:4:4 SDI	YES
12/10/8-bit 4:2:2:4 SDI	YES
5th BNC monitor Output	YES

REFERENCE

Bi-Level/Tri-Level Reference Input (Dedicated BNC)	YES
BF Lock Output	YES

ANCILLARY**HANC**

RP 188 timecode	YES
16 channels of embedded audio per SDI	YES
Video payload ID	YES
Custom packets	YES

VANC

Closed captioning	YES
3 line VITC	YES
Custom packets	YES

AUDIO IO**AUDIO SIGNALS**

16 channels of smbedded audio Input per SDI	YES
8 channels of AES ID3 Input (unbalanced, BNC)	YES^
16 channels of embedded audio Output per SDI	YES
8 channels of AES ID3 Output (unbalanced, BNC)	YES^
2 channels -10DBU analogue Output (unbalanced, RCA)	YES^
Dolby Digital pass-through SDI	YES

HARDWARE**MAJOR HARDWARE FEATURES**

High-performance, 3G bypass relays	YES
Fully programmable 4 x 4 x 33-bit colour matrix	YES
12-bit video signal path throughout	YES
Automatic cross-locking and intelligent output phasing across formats	YES
Audio sample-rate converters	YES
(MR?) Master Routing Resource	YES
ISIM (Input Stream Integrity Management)	YES
4-lane PCI-Express (8 and 16 lane compatible)	YES
Full-duplex DMA data transfer bandwidth 1.1GB/s	YES
256MB on-board memory	YES
Hardware keyer	YES
LTC I/O BNC	YES^
RS-422 serial port (Via breakout cable)	YES^

VIDEO FORMATS**SUPPORTED YUV SDI VIDEO MODES**

(2K) 2048x1080p/PsF @ 23.976, 24, 25, 29.97, 30 fps	YES
(2K) 2048x1080p/PsF @ 48, 50, 59.94, 60 fps	YES
(HD) 1920x1080p/PsF @ 23.976, 24, 25, 29.97, 30 fps	YES
(HD) 1920x1080p/PsF @ 48, 50, 59.94, 60 fps	YES
(HD) 1920x1080i @ 25, 29.97, 30 fps	YES
(HD) 1280x720p @ 23.976, 24, 25, 29.97, 30, 50, 59.94, 60 fps	YES
(SD) 720x576i @ 25 fps PAL	YES
(SD) 720x486i @ 29.97 fps NTSC	YES

SUPPORTED RGB SDI VIDEO MODES

(2K) 2048x1080p/PsF @ 23.976, 24, 25, 29.97, 30 fps	YES
(HD) 1920x1080p/PsF @ 23.976, 24, 25, 29.97, 30 fps	YES
(HD) 1920x1080i @ 25, 29.97, 30 fps	YES
(SD) 720x576i @ 25 fps PAL	YES
(SD) 720x486i @ 29.97 fps NTSC	YES

SUPPORTED HSDL SDI VIDEO MODES

(2K) 2048x1556PsF @ 14.98, 15 fps	YES
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SUPPORTED 4K YUV SDI VIDEO MODES

(4K) 4096x2160p @ 23.976, 24, 25, 29.97, 30 fps	YES
(4K) 4096x2160p @ 48, 50, 59.94, 60 fps	NO
(UHD) 3840x2160p @ 23.976, 24, 25, 29.97, 30 fps	YES
(UHD) 3840x2160p @ 48, 50, 59.94, 60 fps	NO

SUPPORTED 4K RGB SDI VIDEO MODES

(4K) 4096x2160p @ 23.976, 24, 25, 29.97, 30 fps	YES*
(UHD) 3840x2160p @ 23.976, 24, 25, 29.97, 30 fps	YES*

SUPPORTED PIXEL FORMATS

2VUY, YUVS, BV8, V210, AYUV _ 4224, AYUV _ 4444, YV12, I420	YES
ARGB, BGRA, RGB24, Cineon, DPX, RGB48	YES
Custom using flexible hardware pixel format engine	YES

*Dependant on available PCIe bandwidth. ^Available on Epoch | 4K Supernova S+ EX only.

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

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

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For worldwide reseller and distributor contact information, please go to bluefish444.com/contacts