



EPOCH | SUPERNOVA CG

Epoch | Supernova CG: Flexibility for Fill/Key Software Developers

The Epoch | Supernova CG has been specifically designed to meet the needs of 3rd party developers and integrators who demand a mission critical 24/7 video card for live SDI 4:2:2:4 input and output solutions.

Input and Output flexibility: License only the channels you need

The Epoch | Supernova CG card maintains the flexibility of the Epoch | 4k Supernova S+ solution where SDI connectors can be set as inputs or outputs. In a less demanding infrastructure where 3G SDI channels are not required, the Epoch | Supernova CG card shines.

Epoch | Supernova CG is specified with a base license of fill and fill/key functionality with the option to upgrade to a full license of fill and fill/key as your channel requirements increase.

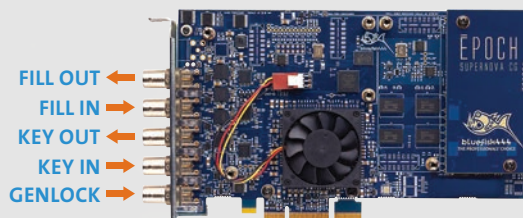
Base Licence Functionality

A 1 x Fill/Key Input



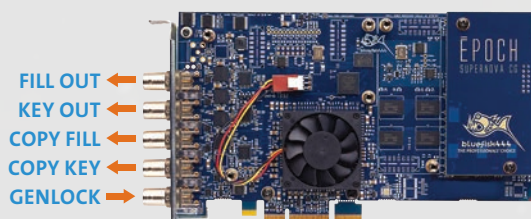
OR

B 1 x Fill/Key I/O



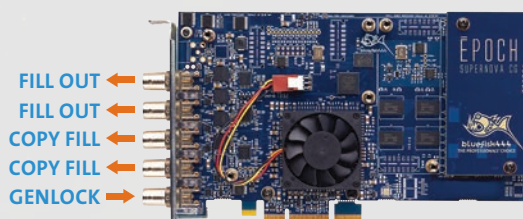
OR

C 1 x Fill/Key Output



OR

D 2 x Fill Output

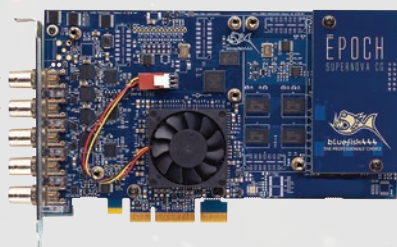


Epoch | Supernova CG is specified with a base license of fill and fill/key functionality with the option to upgrade to a full license of fill and fill/key as your channel requirements increase.

Full Licence Functionality

A 1 x Fill/Key Input

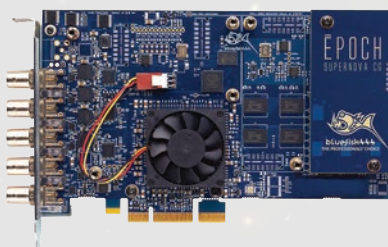
FILL IN →
KEY IN →



OR

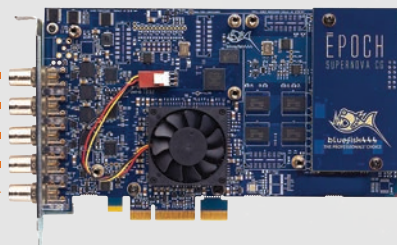
B 1 x Fill/Key I/O

FILL OUT ←
FILL IN →
KEY OUT ←
KEY IN →
GENLOCK →



OR **C** 1 x Fill/Key Output

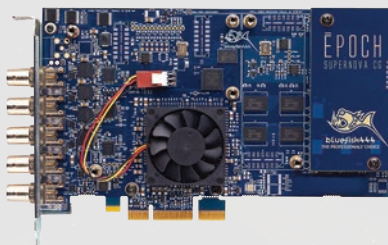
FILL OUT ←
KEY OUT ←
COPY FILL ←
COPY KEY ←
GENLOCK →



OR

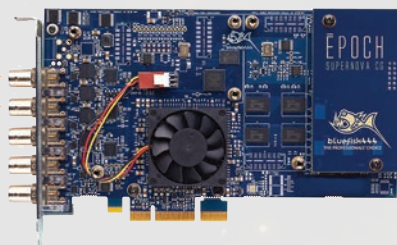
D 2 x Fill Output

FILL OUT ←
FILL OUT ←
COPY FILL ←
COPY FILL ←
GENLOCK →



OR **E** 2 x Fill Input

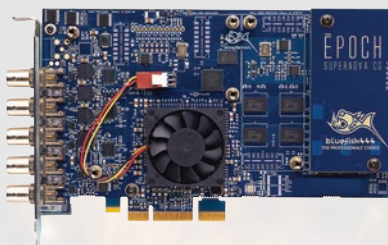
FILL IN →
FILL IN →



OR

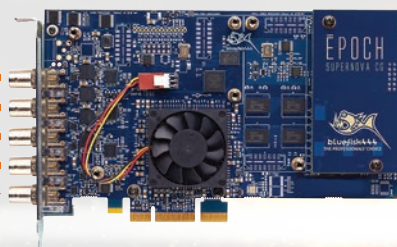
F 2 x Fill I/O

FILL OUT ←
FILL IN →
FILL OUT ←
FILL IN →
GENLOCK →



OR **G** 2 x Fill/Key Output

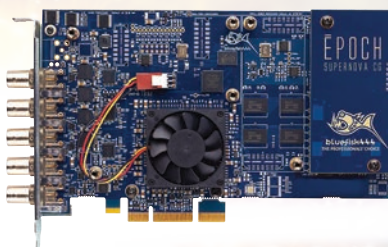
FILL OUT ←
KEY OUT ←
FILL OUT ←
KEY OUT ←
GENLOCK →



OR

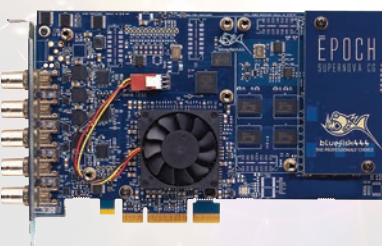
H 4 x Fill Output

FILL OUT ←
FILL OUT ←
FILL OUT ←
FILL OUT ←
GENLOCK →



OR **I** 3 x Fill Output + 1 x Key Output

FILL OUT ←
KEY OUT ←
FILL OUT ←
FILL OUT ←
GENLOCK →



Feature	Epoch Supernova CG	Feature	Epoch Supernova CG
SDI Video		Major Hardware Features (cont.)	
SD	Yes	Automatic Cross-Locking and intelligent output phasing across formats	Yes
HD 1.5G	Yes	(MR2) Master Routing Resource	Yes
3G	No	ISIM (Input Stream integrity management)	Yes
Genlock		4-lane PCI-Express (8 and 16 lane compatible)	Yes
Bi-Level/Tri-Level Genlock	Yes	256MB On Board Memory	Yes
HANC		Supported YUV SDI Video Modes *	
RP188 timecode	Yes	720 x 486i @ 29.97fps NTSC	Yes
16 Channels of Embedded Audio per SDI	Yes	720 x 576i @ 25fps PAL	Yes
Video Payload ID	Yes	1280 x 720p @ 23.976, 24, 25, 29.97, 30, 50, 59.94, 60fps	Yes
VANC		1920 x 1080i @ 25, 29.97, 30fps	Yes
Closed captioning	Yes	1920 x 1080P/PsF @ 23.976, 24, 25, 29.97, 30fps	Yes
3 Line VITC	Yes	1920 x 1080P/PsF @ 23.976, 24, 25, 29.97, 30fps	Yes
Custom Packets	Yes	2048 x 1080P/PsF @ 23.976, 24, 25, 29.97, 30fps	Yes
Audio Signals		Supported Pixel Formats	
16 channels of Embedded Audio Input per SDI	Yes	2VUY, YUVS (BV8), V210, AYUV _ 4224, AYUV _ 4444, YV12, I420	Yes
16 channels of Embedded Audio Output per SDI	Yes	ARGB, BGRA, RGB24, Cineon, DPX, RGB48, RGBA64	Yes
Dolby Digital Pass-through SDI	Yes	Custom using flexible hardware pixel format engine	Yes
Major Hardware Features		Supported API'S	
High Performance Bypass Relays	Yes	Windows API C/C++	Yes
Fully Programmable 4 x 4 x 32-bit Colour Matrix	Yes	DirectShow Filters API	Yes
12-bit video signal path throughout	Yes	Mac OS X API C/C++	Yes
		Linux API C/C++	Yes
		Linux V4L2	Yes

Epoch | Supernova CG comes with a free two year warranty.

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.



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