



Fusion 2

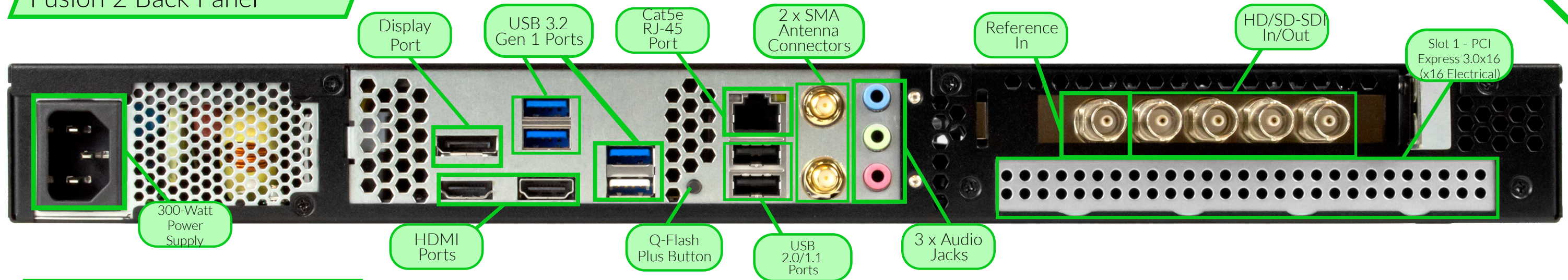
Quick Start Guide



Fusion 2 Front Panel



Fusion 2 Back Panel



Specifications

Video Standards

SD Video Standards

525i59.94 NTSC, 625i50 PAL

HD Video Standards

720p50, 720p59.94, 720p60
 1080p23.98, 1080p24, 1080p25, 1080p29.97,
 1080p30, 1080p50, 1080p59, 1080p59.94, 1080p60
 1080PsF23.98, 1080PsF24, 1080PsF25,
 1080PsF29.97, 1080PsF30
 1080i50, 1080i59.94, 1080i60

SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 425M, ITU-R BT.656 and ITU-R BT.601.

SDI Metadata Support

RP 188/SMPTE 12M-2 and closed captioning.

Audio Sampling

Television standard sample rate of 48 kHz and 24 bit.

SDI Color Precision

8, 10, 12-bit RGB 4:4:4 in all modes up to 1080p30 and 8, 10-bit YUV 4:2:2 in all modes. 12-bit RGB 4:4:4 only supported in playback.

SDI Video Sampling

8, 10, 12-bit RGB 4:4:4 in all modes up to 1080p30 and 8, 10-bit YUV 4:2:2 in all modes. 12-bit RGB 4:4:4 only supported in playback.

Color Space

REC 601, REC 709, REC 2020

HDR Support

HDR static metadata packing, HLG and PQ transfer characteristics.

Connections

SDI Video Inputs

4 x bidirectional 12-bit SD/HD independently configurable as either Input or Output.

SDI Video Outputs

4 x bidirectional 12-bit SD/HD independently configurable as either Input or Output.

SDI Audio Inputs

16 channels embedded in SD and HD.

Supported Codecs

AVC-Intra, AVCHD, Canon XF MPEG2, Digital SLR, DV-NTSC, DV-PAL, DVCPRO50, DVCPROHD, DPX, HDV, HEVC, XDCAM EX, XDCAM HD, XDCAM HD422, DNxHR & DNxHD, Apple ProRes 4444, Apple ProRes 422 HQ, Apple ProRes 422, Apple ProRes LT, Apple ProRes 422 Proxy, Uncompressed 8-bit 4:2:2, Uncompressed 10-bit 4:2:2, Uncompressed 10-bit 4:4:4

Ports

LAN

Realtek® GbE LAN chip (10/100/1000 Mbit)

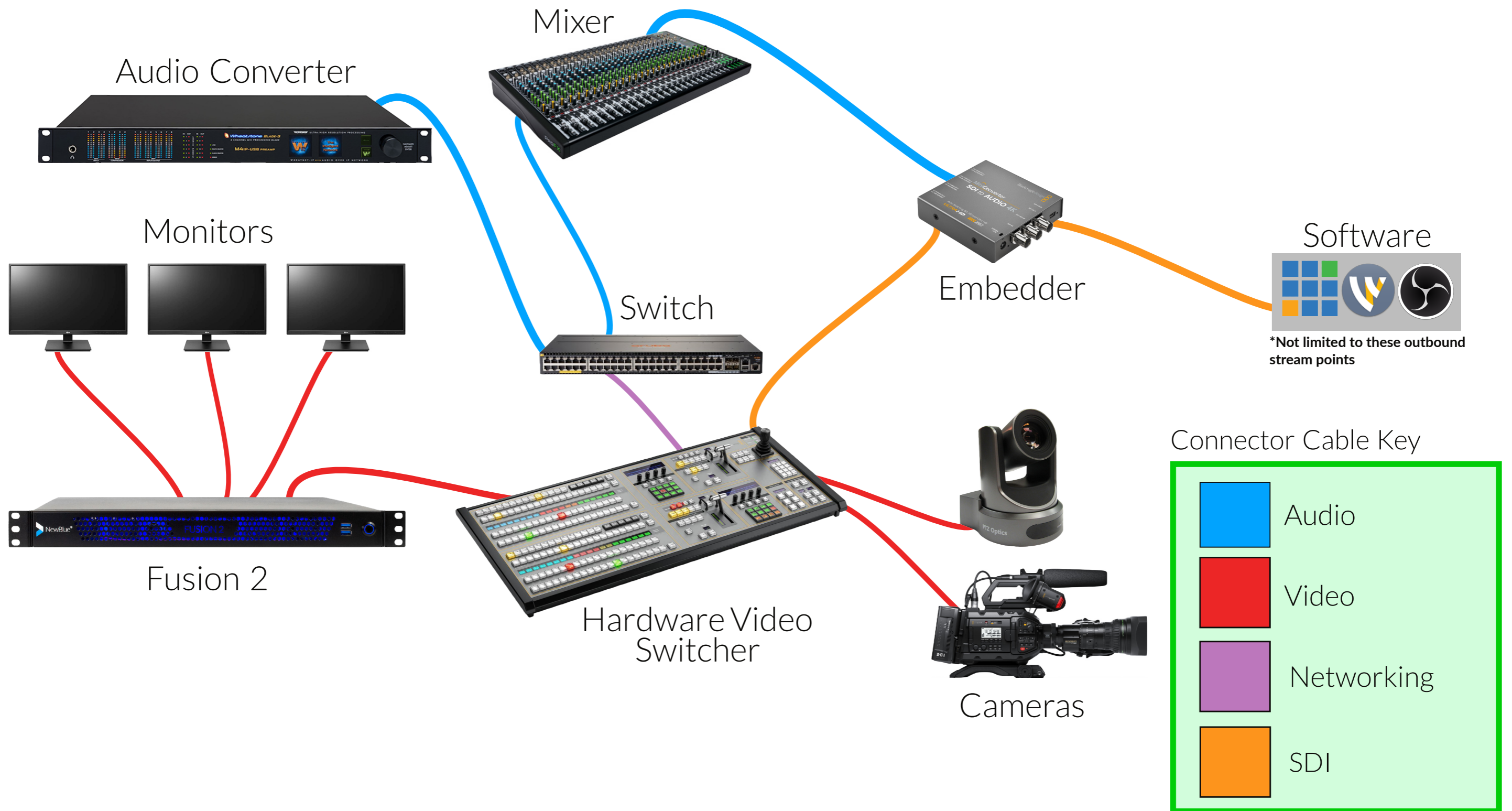
Onboard Graphics

1 x DisplayPort port, supporting a maximum resolution of 5120x2880@60 Hz

2 x HDMI ports, supporting a maximum resolution of 4096x2160@60 Hz



Fusion 2 Example SDI Workflow





Fusion 2 Product Specifications

HARDWARE	Fusion 2 NDI (\$6,995 USD)	Fusion 2 SDI (\$8,995 USD)	Fusion 2 Extreme (\$15,995 USD)
Power Supply	300 Watt 80 PLUS® Gold certified Flex ATX power supply	300 Watt 80 PLUS® Gold certified Flex ATX power supply	300 Watt 80 PLUS® Gold certified Flex ATX power supply
Motherboard	Gigabyte A520I AC - Mini ITX, Socket AM4	Gigabyte A520I AC - Mini ITX, Socket AM4	Gigabyte A520I AC - Mini ITX, Socket AM4
Operating System	Windows 10 Pro 64-bit	Windows 10 Pro 64-bit	Windows 10 Pro 64-bit
Processor	AMD Ryzen™ 5 5600G 3.9 GHz (4.4 GHz Max Turbo) 6-core/12-thread processor, 16MB L3 Cache, 65W Processor	AMD Ryzen™ 5 5600G 3.9 GHz (4.4 GHz Max Turbo) 6-core/12-thread processor, 16MB L3 Cache, 65W Processor	AMD Ryzen™ 5 5600G 3.9 GHz (4.4 GHz Max Turbo) 6-core/12-thread processor, 16MB L3 Cache, 65W Processor
Memory	16GB DDR4 3200 MHz RAM (non-ECC) (8GB x 2 DIMM dual-channel configuration)	16GB DDR4 3200 MHz RAM (non-ECC) (8GB x 2 DIMM dual-channel configuration)	32GB DDR4 3200MHz 2x16GB replaces 16GB DDR4 3200MHz 2x8GB
Graphics	AMD Radeon™ Graphics, 7x Graphics Cores, 1900MHz base clock	AMD Radeon™ Graphics, 7x Graphics Cores, 1900MHz base clock	AMD Radeon™ Graphics, 7x Graphics Cores, 1900MHz base clock
Storage	1 x 500GB Western Digital Blue SN550 series M.2 2280 NVMe 1.3 PCI Express 3.0 x4 SSD	1 x 500GB Western Digital Blue SN550 series M.2 2280 NVMe 1.3 PCI Express 3.0 x4 SSD	1 x 500GB Western Digital Blue SN550 series M.2 2280 NVMe 1.3 PCI Express 3.0 x4 SSD
Expansion Slots	Slot 1 - PCI Express 3.0 x16 (x16 electrical)	Blackmagic DeckLink Duo 2	Blackmagic DeckLink 8K Pro
External Ports	1 x DisplayPort, 2 x HDMI ports, 4 x USB 3.2 Gen 1 ports, 2 x USB 2.0/1.1 ports, 1 x Q-Flash Plus button, 1 x Cat5e RJ-45 port, 2 x SMA antenna connectors (1T1R), 3 x audio jacks	1 x DisplayPort, 2 x HDMI ports, 4 x USB 3.2 Gen 1 ports, 2 x USB 2.0/1.1 ports, 1 x Q-Flash Plus button, 1 x Cat5e RJ-45 port, 2 x SMA antenna connectors (1T1R), 3 x audio jacks	1 x DisplayPort, 2 x HDMI ports, 4 x USB 3.2 Gen 1 ports, 2 x USB 2.0/1.1 ports, 1 x Q-Flash Plus button, 1 x Cat5e RJ-45 port, 2 x SMA antenna connectors (1T1R), 3 x audio jacks
Internal Ports	1 x USB 3.2 Gen 1 header, 1 x USB 2.0/1.1 header, 1 x Trusted Platform Module (TPM) header, 1 x serial port header, 1 x addressable LED strip header, 1 x RGB LED strip header, 1 x M.2 Socket 3 connector, 4 x SATA 6Gb/s connectors	1 x USB 3.2 Gen 1 header, 1 x USB 2.0/1.1 header, 1 x Trusted Platform Module (TPM) header, 1 x serial port header, 1 x addressable LED strip header, 1 x RGB LED strip header, 1 x M.2 Socket 3 connector, 4 x SATA 6Gb/s connectors	1 x USB 3.2 Gen 1 header, 1 x USB 2.0/1.1 header, 1 x Trusted Platform Module (TPM) header, 1 x serial port header, 1 x addressable LED strip header, 1 x RGB LED strip header, 1 x M.2 Socket 3 connector, 4 x SATA 6Gb/s connectors
Audio	Realtek® ALC887 codec High Definition Audio codec	Realtek® ALC887 codec High Definition Audio codec	Realtek® ALC887 codec High Definition Audio codec
SUPPORT			
Support & Training	Priority Support and Expert Training with Solutions Experts	Priority Support and Expert Training with Solutions Experts	Priority Support and Expert Training with Solutions Experts
Warranty	1 Year Manufacturer's Warranty	1 Year Manufacturer's Warranty	2 Year Manufacturer's Warranty

WEIGHT & DIMENSIONS

16 lbs, 24 x 16 x 8 inches.