AJA Corvid 44 12G S Low-Profile 8K 4-Channel 12G-SDI 8-Line PCIe 3.0 I/O Card with Fan/Cables/HD-BNC

Video Formats	- (8K) 8192 x 4320p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60 - (UHD2) 7680 x 4320p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 - (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60 - (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 - (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60 - (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30 - (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 - (HD) 1080PsF 23.98, 24, 25, 29.97, 30 - (HD) 1080i 50, 59.94, 60 - (HD) 720p 50, 59.94, 60 - (SD) 625i 50 - (SD) 525i 59.94 **Note**: High Frame Rate capabilities are dependent on host system attributes. Not all systems and configurations will support all frame rates.
Video Inputs Digital	- 12G-SDI, SMPTE-2082, 12-bit, 10-bit and 8-bit - 6G-SDI, SMPTE-2081, 10-bit and 8-bit - 3G-SDI, SMPTE-259/292/296/424/425, 12-bit, 10-bit and 8-bit - 4K/UltraHD 4:4:4 (4x BNC) - 1.5G-SDI, SMPTE 372M, Dual Link HD 4:4:4 (2x BNC), 12-bit, 10-bit and 8-bit - 1.5G-SDI, SMPTE 292M, Single Link 4:2:2 (1x BNC), 10-bit and 8-bit **Note**: Corvid 44 12G SDI connectors are HD BNC
Video Outputs Digital	- 12G-SDI, SMPTE-2082, 12-bit, 10-bit and 8-bit - 6G-SDI, SMPTE-2081, 10-bit and 8-bit - 3G-SDI, SMPTE-259/292/296/424, 12-bit, 10-bit and 8-bit - 4K/UltraHD 4:4:4 (4x BNC) - 1.5G-SDI, SMPTE 372M, Dual Link HD 4:4:4 (2x BNC), 12-bit, 10-bit and 8-bit - 1.5G-SDI, SMPTE 292M, Single Link 4:2:2 (1x BNC), 10-bit and 8-bit **Note**: Corvid 44 12G SDI connectors are HD BNC

SDI I/O	- SDI connections are bidirectional
	  - 2K/HD, capture and monitoring is simultaneous
	  - 4K/UltraHD with 12G-SDI, capture and monitoring is simultaneous.
	  - 4K/UltraHD with 3G-SDI, all four connections must be used for either Input or Output.
	  - 8K/UHD2 with 12G-SDI, connections must be used for either Input or Output.
	
	Note: When connections are configured for 12G-SDI or 6G-SDI, only UltraHD/4K/UHD2/8K formats are supported.

Audio Inputs Digital	- 16-channel, 24 and 16-bit SDI embedded audio, 48 kHz sample rate, synchronous
Audio Outputs Digital	- 16-channel, 24-bit SDI embedded audio, 48 kHz sample rate, synchronous
Downstream Keyer	- Supports graphics with alpha channel over video, matte or framebuffer, or framebuffer content over incoming video or matte up to UltraHD/4K
Reference	- Analog Color Black (1V) or Composite Sync (2 or 4V) or HD Tri-Level Sync (1V) via 1x HD-BNC on PCIe bracket - Reference input is terminated into 75 ohms when Genlock is set to Ref In
Timecode	- LTC timecode input via 2-pin header on PCIe card [both short (low profile) and tall (full height) models] - LTC timecode input via HD-BNC Ref In connector (switchable) on PCIe bracket [tall (full height) models only]
Electrical Interface	- 8-lane PCIe 3.0

Machine Controls	- RS-422, Sony 9-pin protocol via header on PCIe card [both short (low profile) and tall (full height) models] - RS-422, Sony 9-pin protocol via port on PCIe bracket connected to header via DB9 cable [tall (full height) models only] 9-pin D-connector pinout is as follows: | 1	GND
2	RX-
3	TX+
4	GND
5	No Connection
6	GND
7	RX+
8	TX-
9	GND
Shell	GND	
Noise	<50dBA (A-weighted at 1m in free air) [models with active cooling (fan)] - Ultra quiet (virtually silent) [models with passive* cooling (no fan)] - Passive cooling requires in-host/chassis air-flow minimum of 150 LFM (linear feet per minute) at 30 C
Size (w x d x h)	0.75" x 7.0" x 3.15" (19 x 178 x 80 mm) [short (low profile) models] 0.75" x 7.0" x 4.75" (19 x 178 x 121 mm) [tall (full height) models]
Weight	- PCIe Card: 0.6 lbs (0.3 kg) - Cables (all combined): 0.6 lbs (0.3 kg)
Power	25W typical, 32W maximum - PC Internal ATX Power Connector (Molex p/n 45559-0002) **Note**: Unlike other Corvid cards, Corvid 44 12G can use either PCIe power from a 6 pin ATX connector, or via the PCIe slot.
Environment	- Safe Operating Temperature: 0 to 40 C (32 to 104 F) - Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F) - Operating Relative Humidity: 10-90% noncondensing - Operating Altitude: <3,000 meters (<10,000 feet)