

AJA Corvid 44 12G T Fanless 8K 4-Ch 12G-SDI Compact 8-Line PCIe 3.0 I/O Card with Passive Cooling/Cables/HD-BNC

Video Formats	<ul style="list-style-type: none"> • (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 <p>Note: High Frame Rate capabilities are dependent on host system attributes. Not all systems and configurations will support all frame rates.</p>
Video Inputs Digital	<ul style="list-style-type: none"> • 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 <p>Note: Corvid 44 12G SDI connectors are HD BNC</p>
Video Outputs Digital	<ul style="list-style-type: none"> • 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 <p>Note: Corvid 44 12G SDI connectors are HD BNC</p>
SDI I/O	<ul style="list-style-type: none"> • SDI connections are bidirectional <ul style="list-style-type: none"> ◦ 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. <p>Note: When connections are configured for 12G-SDI or 6G-SDI, only UltraHD/4K/UHD2/8K formats are supported.</p>
Audio Inputs Digital	<ul style="list-style-type: none"> • 16-channel, 24 and 16-bit SDI embedded audio, 48 kHz sample rate, synchronous
Audio Outputs Digital	<ul style="list-style-type: none"> • 16-channel, 24-bit SDI embedded audio, 48 kHz sample rate, synchronous
Downstream Keyer	<ul style="list-style-type: none"> • Supports graphics with alpha channel over video, matte or framebuffer, or framebuffer content over incoming video or matte up to UltraHD/4K
Reference	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 8-lane PCIe 3.0

<p>Machine Controls</p>	<ul style="list-style-type: none"> • 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: <table border="1" data-bbox="794 224 1018 1003"> <tr><td>1</td><td>GND</td></tr> <tr><td>2</td><td>RX-</td></tr> <tr><td>3</td><td>TX+</td></tr> <tr><td>4</td><td>GND</td></tr> <tr><td>5</td><td>No Connection</td></tr> <tr><td>6</td><td>GND</td></tr> <tr><td>7</td><td>RX+</td></tr> <tr><td>8</td><td>TX-</td></tr> <tr><td>9</td><td>GND</td></tr> <tr><td>Shell</td><td>GND</td></tr> </table>	1	GND	2	RX-	3	TX+	4	GND	5	No Connection	6	GND	7	RX+	8	TX-	9	GND	Shell	GND
1	GND																				
2	RX-																				
3	TX+																				
4	GND																				
5	No Connection																				
6	GND																				
7	RX+																				
8	TX-																				
9	GND																				
Shell	GND																				
<p>Noise</p>	<ul style="list-style-type: none"> • <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 																				
<p>Size (w x d x h)</p>	<ul style="list-style-type: none"> • 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] 																				
<p>Weight</p>	<ul style="list-style-type: none"> • PCIe Card: 0.6 lbs (0.3 kg) • Cables (all combined): 0.6 lbs (0.3 kg) 																				
<p>Power</p>	<ul style="list-style-type: none"> • 25W typical, 32W maximum • PC Internal ATX Power Connector (Molex p/n 45559-0002) <p>Note: Unlike other Corvid cards, Corvid 44 12G can use either PCIe power from a 6 pin ATX connector, or via the PCIe slot.</p>																				
<p>Environment</p>	<ul style="list-style-type: none"> • 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) 																				