

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

<b>Video Formats</b>	<ul style="list-style-type: none"> <li>• (8K) 8192 x 4320p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60</li> <li>• (UHD2) 7680 x 4320p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60</li> <li>• (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60</li> <li>• (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60</li> <li>• (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60</li> <li>• (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30</li> <li>• (HD) 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60</li> <li>• (HD) 1080PsF 23.98, 24, 25, 29.97, 30</li> <li>• (HD) 1080i 50, 59.94, 60</li> <li>• (HD) 720p 50, 59.94, 60</li> <li>• (SD) 625i 50</li> <li>• (SD) 525i 59.94</li> </ul> <p><b>Note:</b> High Frame Rate capabilities are dependent on host system attributes. Not all systems and configurations will support all frame rates.</p>
<b>Video Inputs Digital</b>	<ul style="list-style-type: none"> <li>• 12G-SDI, SMPTE-2082, 12-bit, 10-bit and 8-bit</li> <li>• 6G-SDI, SMPTE-2081, 10-bit and 8-bit</li> <li>• 3G-SDI, SMPTE-259/292/296/424/425, 12-bit, 10-bit and 8-bit</li> <li>• 4K/UltraHD 4:4:4 (4x BNC)</li> <li>• 1.5G-SDI, SMPTE 372M, Dual Link HD 4:4:4 (2x BNC), 12-bit, 10-bit and 8-bit</li> <li>• 1.5G-SDI, SMPTE 292M, Single Link 4:2:2 (1x BNC), 10-bit and 8-bit</li> </ul> <p><b>Note:</b> Corvid 44 12G SDI connectors are HD BNC</p>
<b>Video Outputs Digital</b>	<ul style="list-style-type: none"> <li>• 12G-SDI, SMPTE-2082, 12-bit, 10-bit and 8-bit</li> <li>• 6G-SDI, SMPTE-2081, 10-bit and 8-bit</li> <li>• 3G-SDI, SMPTE-259/292/296/424, 12-bit, 10-bit and 8-bit</li> <li>• 4K/UltraHD 4:4:4 (4x BNC)</li> <li>• 1.5G-SDI, SMPTE 372M, Dual Link HD 4:4:4 (2x BNC), 12-bit, 10-bit and 8-bit</li> <li>• 1.5G-SDI, SMPTE 292M, Single Link 4:2:2 (1x BNC), 10-bit and 8-bit</li> </ul> <p><b>Note:</b> Corvid 44 12G SDI connectors are HD BNC</p>
<b>SDI I/O</b>	<ul style="list-style-type: none"> <li>• SDI connections are bidirectional <ul style="list-style-type: none"> <li>◦ 2K/HD, capture and monitoring is simultaneous</li> <li>◦ 4K/UltraHD with 12G-SDI, capture and monitoring is simultaneous.</li> <li>◦ 4K/UltraHD with 3G-SDI, all four connections must be used for either Input or Output.</li> <li>◦ 8K/UHD2 with 12G-SDI, connections must be used for either Input or Output.</li> </ul> </li> </ul> <p><b>Note:</b> When connections are configured for 12G-SDI or 6G-SDI, only UltraHD/4K/UHD2/8K formats are supported.</p>
<b>Audio Inputs Digital</b>	<ul style="list-style-type: none"> <li>• 16-channel, 24 and 16-bit SDI embedded audio, 48 kHz sample rate, synchronous</li> </ul>
<b>Audio Outputs Digital</b>	<ul style="list-style-type: none"> <li>• 16-channel, 24-bit SDI embedded audio, 48 kHz sample rate, synchronous</li> </ul>
<b>Downstream Keyer</b>	<ul style="list-style-type: none"> <li>• Supports graphics with alpha channel over video, matte or framebuffer, or framebuffer content over incoming video or matte up to UltraHD/4K</li> </ul>
<b>Reference</b>	<ul style="list-style-type: none"> <li>• Analog Color Black (1V) or Composite Sync (2 or 4V) or HD Tri-Level Sync (1V) via 1x HD-BNC on PCIe bracket</li> <li>• Reference input is terminated into 75 ohms when Genlock is set to Ref In</li> </ul>
<b>Timecode</b>	<ul style="list-style-type: none"> <li>• LTC timecode input via 2-pin header on PCIe card [both short (low profile) and tall (full height) models]</li> <li>• LTC timecode input via HD-BNC Ref In connector (switchable) on PCIe bracket [tall (full height) models only]</li> </ul>
<b>Electrical Interface</b>	<ul style="list-style-type: none"> <li>• 8-lane PCIe 3.0</li> </ul>

<p><b>Machine Controls</b></p>	<ul style="list-style-type: none"> <li>• RS-422, Sony 9-pin protocol via header on PCIe card [both short (low profile) and tall (full height) models]</li> <li>• RS-422, Sony 9-pin protocol via port on PCIe bracket connected to header via DB9 cable [tall (full height) models only]</li> <li>• 9-pin D-connector pinout is as follows:</li> </ul> <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
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8	TX-																				
9	GND																				
Shell	GND																				
<p><b>Noise</b></p>	<ul style="list-style-type: none"> <li>• &lt;50dBA (A-weighted at 1m in free air) [models with active cooling (fan)]</li> <li>• Ultra quiet (virtually silent) [models with passive* cooling (no fan)]</li> <li>• Passive cooling requires in-host/chassis air-flow minimum of 150 LFM (linear feet per minute) at 30 C</li> </ul>																				
<p><b>Size (w x d x h)</b></p>	<ul style="list-style-type: none"> <li>• 0.75" x 7.0" x 3.15" (19 x 178 x 80 mm) [short (low profile) models]</li> <li>• 0.75" x 7.0" x 4.75" (19 x 178 x 121 mm) [tall (full height) models]</li> </ul>																				
<p><b>Weight</b></p>	<ul style="list-style-type: none"> <li>• PCIe Card: 0.6 lbs (0.3 kg)</li> <li>• Cables (all combined): 0.6 lbs (0.3 kg)</li> </ul>																				
<p><b>Power</b></p>	<ul style="list-style-type: none"> <li>• 25W typical, 32W maximum</li> <li>• PC Internal ATX Power Connector (Molex p/n 45559-0002)</li> </ul> <p><b>Note:</b> 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><b>Environment</b></p>	<ul style="list-style-type: none"> <li>• Safe Operating Temperature: 0 to 40 C (32 to 104 F)</li> <li>• Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)</li> <li>• Operating Relative Humidity: 10-90% noncondensing</li> <li>• Operating Altitude: &lt;3,000 meters (&lt;10,000 feet)</li> </ul>																				