

AJA Corvid 44 12G BNC Fanless (T, NC) 8K 4-Ch 12G-SDI Compact 8-Line PCIe 3.0 I/O Card with Passive Cooling/full-size 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 BNC SDI connectors are full-size 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 BNC SDI connectors are full-size 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 full-size 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, or via full-size BNC Ref In connector (switchable) on PCIe bracket 																		
Electrical Interface	<ul style="list-style-type: none"> • 8-lane PCIe 3.0 																		
Machine Controls	<ul style="list-style-type: none"> • RS-422, Sony 9-pin protocol via header on PCIe card • 9-pin D-connector pinout is as follows: <table border="1" data-bbox="774 1921 1034 2199"> <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></td><td></td></tr> </table>	1	GND	2	RX-	3	TX+	4	GND	5	No Connection	6	GND	7	RX+	8	TX-		
1	GND																		
2	RX-																		
3	TX+																		
4	GND																		
5	No Connection																		
6	GND																		
7	RX+																		
8	TX-																		

	<table border="1"> <tr> <td>9</td> <td>GND</td> </tr> <tr> <td>Shell</td> <td>GND</td> </tr> </table>	9	GND	Shell	GND
9	GND				
Shell	GND				
Noise	<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 				
Size (w x d x h)	<ul style="list-style-type: none"> • 0.75" x 7.0" x 4.75" (19 x 178 x 121 mm) 				
Weight	<ul style="list-style-type: none"> • PCIe Card: 0.6 lbs (0.3 kg) 				
Power	<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>				
Environment	<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) 				