

# Matrox Rapixo CXP >>>

Single- to quad-input CoaXPress 2.0 frame grabbers with optional data forwarding and FPGA-based image processing offload





### **Specifications**

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Hardware			T
Model	Matrox Rapixo CXP Single/Dual	Matrox Rapixo CXP Quad	Matrox Rapixo CXP Quad Data Forwarding
Host interface			
Interconnect	PCIe 2.1/3.1 x4	PCIe 2.1/3.1 x8	PCIe 3.1 x8
Camera/video interface			
Standard	CXP version 2.0		
Configuration	One (1) or two (2) input connection(s)	Four (4) input connections	Four (4) input connections and four (4) output connections
Speeds	1.25 / 2.5 / 3.125 / 5 / 6.25 / 10 / 12.5 Gbps (CXP-1, 2, 3, 5, 6, 10, and 12 respectively)		
Streams	Up to eight (8) total		
Connectors	High-density BNC		
Power output	PoCXP		
Miscellaneous	Connection-status indicator LEDs for inputs		
Memory			
Туре	DDR3 SDRAM	DDR4 SDRAM	
Quantity	1 or 2 GB	4 or 8 GB	4 GB
Purpose	Image buffering and processing		
Image processing capab	vilities		
Onboard look-up tables	8-/10-/12-bit support		
Onboard Bayer interpolation	GB, BG, GR, and RG pattern support		
Onboard color space conversion	Input formats: 8-/16-bit mono/Bayer, 24-/48-bit packed BGR		
	Output formats: 8-/16-bit mono, 24-/48-bit packed/planar BGR, 16-bit YUV, 16-bit YCbCr, 32-bit BGRa		
Custom processing	N/A	Matrox Imaging- or user-developed using Xilinx Vivado® Design Suite and Matrox FDK	N/A
I/0s			
Types	Three (3) TTL I/Os per connector		
	Two (2) LVDS inputs per connector		
	One (1) LVDS output per connector		
	Two (2) opto-isolated inputs per connector		
Connectors	One (1) HD15 connector on main I/O bracket	e (1) HD15 connector on main Two (2) mDP connectors on main I/O bracket accessed through a	
	Two (2) HD15 connectors on secondary I/O bracket		
Physical			
Form factor	Half-length, full-height, PCIe add-in card		
Dimensions (L x W x H)	16.76 x 11.12 x 1.871 cm (6.6 x 4.376 x 0.737 in)		
Environmental			
Operating temperature	0°C to 55°C (32°F to 131°F)²		
Relative humidity	Up to 95% (non-condensing)		





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## **Specifications** (cont.)

Matrox Rapixo CXP			
Certifications			
Electromagnetic compatibility	FCC Class A		
	CE Class A (EN55032, EN55024)		
	ICES-003 / NMB-003 Class A		
	RCM Class A		
	KC Class A		
Software			
Compatible software	MILX		
	Matrox Design Assistant X		
	GenlCam™ GenTL version 1.5		
Operating system support	Windows 7 (64-bit)		
	Windows 10 (64-bit)		
	Linux (64-bit)		
	Note: MIL X only.		
Licensing provisions	MIL X license fingerprint and storage		





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#### **Ordering Information**

Part number	Description	
Hardware		
RAP 1G 1C12	Matrox Rapixo CXP Single CXP-12 PCIe 2.1 x4 frame grabber with 1 GB DDR3 SDRAM and passive heatsink.  Note: Cable adaptors for second and third GPIO sets sold separately.	
RAP 2G 2C12	Matrox Rapixo CXP Dual CXP-12 PCIe 3.1 x4 frame grabber with 2 GB DDR3 SDRAM and passive heatsink.  Note: Cable adaptors for second and third GPI0 sets sold separately.	
RAP 4G 4C6	Matrox Rapixo CXP Quad CXP-6 PCIe 2.1 x8 frame grabber with 4 GB DDR4 SDRAM and passive heatsink. Includes one [1] mDP-to-HD15 GPIO cable adaptor.  Note: Cable adaptors for second, third, and fourth GPIO sets sold separately.	
RAP 4G 4C12	Matrox Rapixo CXP Quad CXP-12 PCIe 3.1 x8 frame grabber with 4 GB DDR4 SDRAM and passive heatsink. Includes one [1] mDP-to-HD15 GPI0 cable adaptor.  Note: Cable adaptors for second, third, and fourth GPI0 sets sold separately.	
RAP 8G 4C12 P352	Matrox Rapixo CXP Pro Quad CXP-12 PCIe 3.1 x8 frame grabber with 8 GB DDR4 SDRAM, Xilinx Kintex Ultrascale KU035 FPGA, and active heatsink (fansink). Includes one (1) mDP-to-HD15 GPI0 cable adaptor.  Note: Cable adaptors for second, third, and fourth GPI0 sets sold separately.	
RAP 8G 4C12 P602	Matrox Rapixo CXP Pro Quad CXP-12 PCIe 3.1 x8 frame grabber with 8 GB DDR4 SDRAM, Xilinx Kintex Ultrasacale KU060 FPGA, and active heatsink (fansink). Includes one (1) mDP-toHD15 GPIO cable adaptor.  Note: Cable adaptors for second, third, and fourth GPIOs sold separately.	
RAP 4G 4C6 DF	Matrox Rapixo CXP Quad Data Forwarding CXP-6 PCIe 3.1 x8 frame grabber with 4 GB DDR4 SDRAM and passive heatsink. Includes one (1) mDP-to-HD15 GPIO cable adaptor.  Note: Cable adaptors for second, third, and fourth GPIO sets sold separately.	
RAP 4G 4C12 DF <sup>3</sup> Verify for availability	Matrox Rapixo CXP Quad Data Forwarding CXP-12 PCIe 3.1 x8 frame grabber with 4 GB DDR4 SDRAM and passive heatsink. Includes one (1) mDP-to-HD15 GPIO cable adaptor.  Note: Cable adaptors for second, third, and fourth GPIO sets sold separately.	
Software		
Refer to MIL X datasheet	and Matrox FDK datasheet.	
Refer to <u>Matrox Design A</u>	ssistant X datasheet.	
Accessories		
RAPACCKIT02	Accessory kit for Matrox Rapixo CXP Single/Dual. Includes one (1) secondary dual HD15 I/O bracket with ribbon cable.	
RAPACCKIT01	Accessory kit for Matrox Rapixo CXP Quad. Includes one (1) additional mDP-to-HD15 GPIO cable adaptor and one (1) secondary dual HD15 I/O bracket with ribbon cable.	
HDBNC2BNC	One [1] 12 in or 30 cm HDBNC-male-to-BNC-female adaptor cable.	

- The software may be protected by one or more patents; see <a href="www.matrox.com/patents">www.matrox.com/patents</a> for more information.
   Models with passive heatsink require a minimum ventilation of 150 LFM (linear feet per minute) in a single board configuration. Contact a Matrox Imaging sales representative for ventilation requirement for multiple board configurations.
   Certification pending.



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