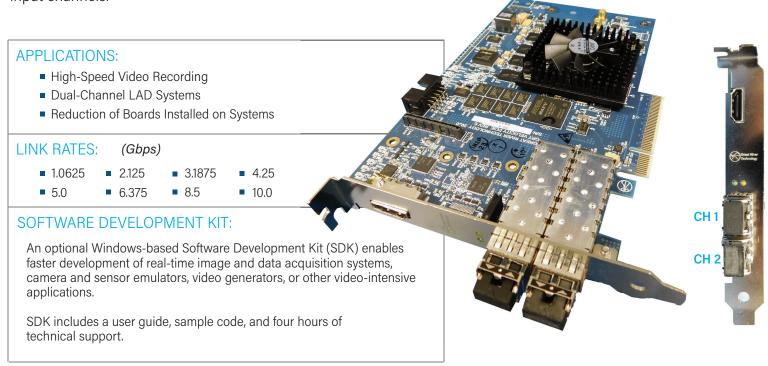


VELOCITY DUAL CHANNEL

A New Generation of Multi-Channel Capture From Two Sources Simultaneously

Velocity adds the power of the PCIe Gen 3 x8 interface coupled with two high-speed DDR3 memory banks and two input channels.

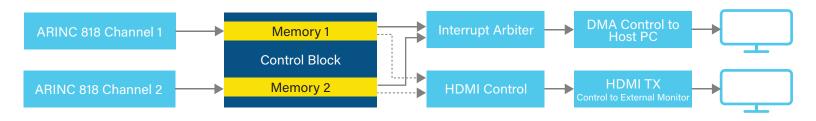


BLOCK DIAGRAM (AS AN ARINC 818 RECEIVER):

The Velocity Card can capture two ARINC 818 video streams. While the ARINC 818 video streams can be completely asynchronous of each other, they must be the same ICD.

Both ARINC 818 streams can be captured simultaneously to a host computer memory via PCle DMA transfers.

If desired, the user can select one of the streams to be routed to HDMI TX. The ARINC 818 TX can be set to either transmit a test pattern or echo out the individual ARINC 818 receiver channels.



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VELOCITY DUAL SOFTWARE APPLICATION:

GRT ships the Velocity Dual Test Software Application with all Velocity Dual Channel ARINC 818 receiver cards. Configure and test ARINC 818 systems. Diagnose the health of your links. See below for features.

The Application includes a detailed user manual.

- Quickly select any preloaded ICD on the card from the Modes list.
- Discover validity of link synchronization, presence of SOFi, EOFt, and idle ordered sets, as well as receive alerts for any 8B/10B or CRC errors with Status Indicator lights.
- **Image Compare** a received image with a reference image from a file or card memory. See the count for mismatched images. Even view a "difference" image on the screen.
- View your image and magnify a Region of Interest. Problem areas in



the image are easy to identify, isolate, and troubleshoot by placing your cursor over a location to read pixel values.

SPECIFICATIONS:

Operating System	Windows 7, 8, 10, & 11, 64-bit	Connectors	HDMI
Power Requirement	18 W @ 12 V	Form Factor	PCIe half length
Operating Temperature	0-50°C (32-122°F)	PCIe Gen 3 x8	4 GB plus throughput
Weight	~ 9.1oz	Memory	256 MB (2 banks of 128 MB)
Physical Dimensions	6.875" x 4.2" PCIe standard height short	Standards	ARINC 818

HOW TO BUY:

Determine your part number for Velocity Dual Channel (VR-E8) ARINC 818 (A8) cards as follows:



For Example:

VR-E8-A8-D8-4X-HT-0000

Interface D3 = Dual Fiber 1310nm D8 = Dual Fiber 850nm DX = Dual Coax (up to 6xFC)

2 Link Rate (Gbps) 1X = 1.06258X = 8.52X = 2.12510X = 10.03X = 3.1875ZZ = Custom4X = 4.250MM = Multiple 6X = 6.375Rates

Custom Characters Assigned by GRT

Note: Not all combinations are valid. If in doubt, call.



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