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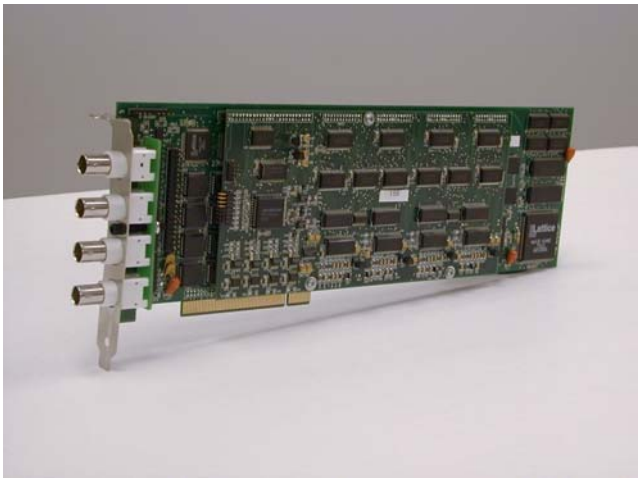
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Find the *SAIC QD-4x12* at our website: *Click HERE*

SAIC QD-4x12
Quad Video Digitizer

Video Enforcement



Product Features

- Four independent real-time monochrome video digitizers with multi-frame memory
- 4x12-bit, 768 x 480 architecture
- Progressive or interlaced capture
- 10Mhz bandwidth
- PCI slot with DMA transfer
- Four channel continuous loop (video clip) recording of video inputs
- Instant frame grab
- Independent capture control for all four channels
- Pre-event and/or post-event image capture
- Real-time 12-bit dynamic range image capture
- On board LUT
- Supports dynamic range expansion
- Supports adaptive level correction

Product Description

The Quad Video Digitizer is an image capture system specifically designed by SAIC for demanding VES system applications. All four inputs are digitized and stored in independent rotary frame buffers, each storing four 12-bit frames or eight 8-bit frames. An event trigger stops the video clip rotary buffer and downloads the images via a PCI/DMA bus. This architecture allows image capture before an event and/or after an event. Installation, setup, and maintenance are easier because full-frame memory allows the digitizer to independently process each input without requiring that all cameras be gen-locked.

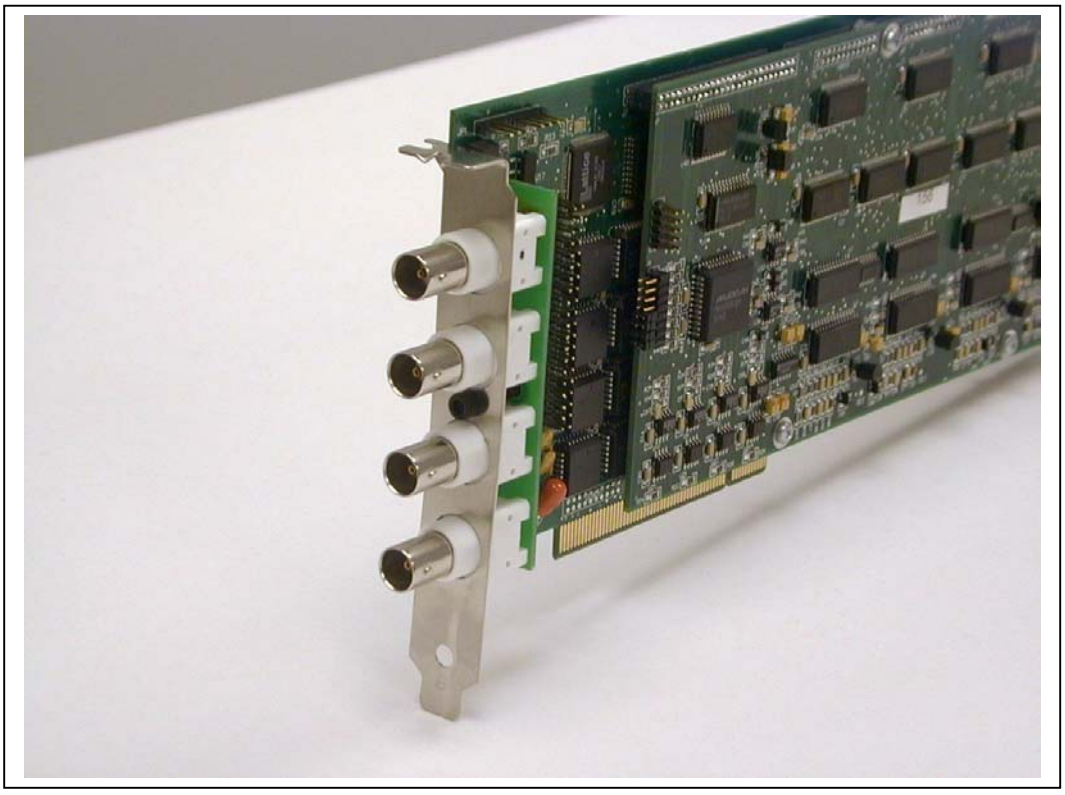
One VES controller computer can support two Quad Video Digitizers for eight cameras. Each camera/digitizer input is independent of the others, and from one to eight events can be captured randomly, simultaneously, or independently. The VES controller computer is a stand-alone device receiving only event triggers from the lane controller. The software gives the user control of 8-bit/12-bit digitizing, contrast, brightness, the number of images (pre- and/or post-event) captured for each digitizer channel. The Quad Video Digitizer was designed with the latest in A/D technology for high-resolution analog conversion to digital multi-frame buffers. The digitizer uses adaptive software to maximize dynamic range of the captured images. Installation of the digitizer is by PCI slot, with one PCI slot per board.

S A I C
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Specifications*

Digitizers per card	*Four independent digitizer channels, one PCI card*
Input format	*4 x monochrome, composite analog video* *30Hz Progressive or 60Hz Interlaced RS-170*
Video level	*4 x (.5 – 1.5)Vp-p 75 ohms source terminated*
Digitizer resolution	*4 x 12-bit, 768 x 480 pixels*
Sample rate	*14.31818 Mhz*
Analog bandwidth	*10Mhz*
Storage	*Four 12-bit full-frame buffers or eight 8-bit full-frame buffers per channel*
Dynamic range	*4096 levels of gray 12-bit mode* *256 levels of gray 8-bit mode*
Image access	*Less than 5ms for any digitizer or all digitizers*
Image capture	*Real-time rotary buffers with four independent channels and four frames at 12-bit resolution*
Image transfer	*PCI slot with DMA transfer*
Video input connector	*4 x BNC*
Contrast control	*Software controlled DAC +- 100%*
Brightness control	*Software controlled DAC +- 200 mv*
Form factor	*Full-size PCI*
Power	*15 watts*



* Specifications subject to change without notice.

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