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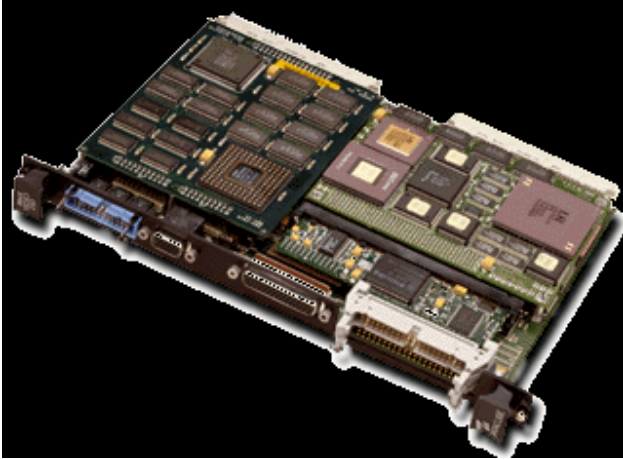
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### *MaxVideo 250*

- Image acquisition, processing and analysis, storage, and display on a single VME board.
  - MaxVideo 250 requires only one 6U VME slot
  - Add-on modules allow acquisition of analog, digital, or color images from a wide range of cameras and sensors.
  - 7,000 MIPS of processing power on a single board.
  - Near-super-computer performance for digital image processing tasks.
- Massive, non-blocking crosspoint switch with 640 MB/sec of internal bandwidth.
  - Allows specialized processing elements to be reconfigured between frames in multiple, parallel image pipes.
- MaxModule daughterboards can be added to enhance specific processing tasks with no additional VME slots required.
  - Modules available for image warping, neighborhood multiplying and accumulating, and rank value filtering.
- MAXbus image bus ports provide high-speed transfer of image data between boards, overcoming limitations of the VMEbus.
  - Multiple boards can be cascaded, allowing resources to be increased for more complex applications.
  - Datacube specialty boards, and products from other manufacturers using the MAXbus open standard, can be added to enhance specific image processing tasks.

Datacube's MaxVideo 250 provides image acquisition, storage, processing, and display functions on a single, one-slot VME card that is more powerful and versatile than any other VME product available. With 7,000 MIPS of processing power, it supports multiple, simultaneous pipelines, switchable by software at frame rates. It derives its power from [pipeline processing](#) -- a method of specialized parallel processing uniquely suited to the demands of image manipulation. Fast VMEbus transfer is available for applications where access to image data by the host CPU is useful.

The MaxVideo 250 includes ports to the VMEbus and MAXbus. It comes with 28 MB of VSIM memory and includes high-speed image access. The MaxVideo 250 accepts analog or digital input from a wide variety of sensors at various speeds and resolutions. It can also receive data from line-scan, TDI, multi-tap, or multi-spectral cameras.

Each board has six VSIMs (Virtual Surface Image Memories) that provide a total of 28 MB of memory. In addition to being surface stores, VSIMs have a crosspoint switch, statistical processor, LUT, and ALU, allowing them to perform specific processing functions at 40 MHz.

The MaxVideo 250's massive crosspoint switch provides 640 MB/second of internal bandwidth. Linear, non-linear, convolution, histogram, and statistical processing operations can be performed simultaneously at frame rates by connecting the processing elements under the control of ImageFlow software.

High Speed Image Access (HSIA) enhances the transfer of frame-rate image data over the VMEbus. In some applications, HSIA allows utilization of the host CPU to augment image processing functionality.

The MAXbus ports allow image data interchange with no performance penalty between the MaxVideo 250 and other boards such as Datacube's XI Display Controller and MD1 Digital Image Recorder. It also allows cascading of multiple MaxVideo 250s for enhanced processing horsepower.

Applications development on the MaxVideo 250 is significantly simplified by Datacube's [ImageFlow](#). This library of C-callable functions synchronizes multiple data transfers at frame-rates, hiding the complexities of the hardware from the programmer. It is also flexible, with the ability to work with a variety of CPUs and operating systems.

The Advanced Processor daughtercard enhances the convolution, statistical analysis, LUT processing and binary morphology capabilities of the MaxVideo 250. The built-in Analog Generator provides a display and graphics overlay that facilitates a wide variety of gray-scale, pseudo-color and color outputs.

Each MaxVideo 250 can be equipped with a [module to acquire analog or digital images](#). It interfaces with a wide variety of sensors with a range of speeds and resolutions. The MaxVideo 250 can also be customized with one of a choice of [MaxModules](#) -- optional daughterboard modules that enhance specific image processing functions.



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