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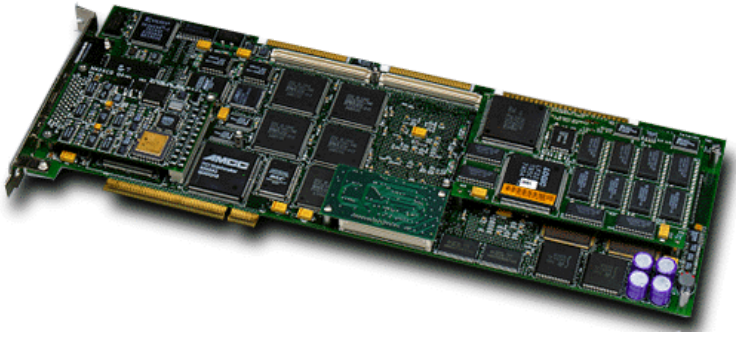
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Find the *Datacube MaxPCI* at our website: ***Click HERE***

PCI Products

MaxACQs
PSMODs
MaxPCI Workstation
MaxVGA
OEMport

MaxPCI



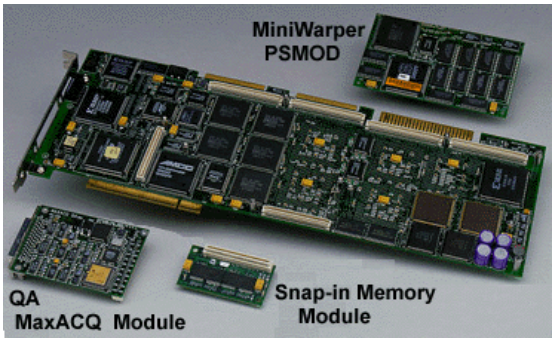
MaxPCI brings power and flexibility to developers of demanding, PC-based imaging applications. This first PCI platform product from Datacube is faster, more modular, and less expensive than previous generations of image processing subsystems, making it adaptable to a wide variety of imaging applications.

- Provides up to 10,000 MIPS of performance.
- Provides full 40 MHz pipeline processing.
- Supports a variety of sensors.
- Software compatibility assures migration to/from VME platforms.
- Tailors systems to individual requirements with flexible acquisition and processing resources configuration.
- Optional display card can overlay up to 1Kx1K pixels @ 30 frames-per-second for live video display.

MaxPCI uses pipeline processing to acquire, store, process, and display images. Image data is piped through a series of on-board computational elements that perform a broad range of image processing tasks. These elements are connected through a non-blocking crosspoint switch comprising 65 inputs by 75 outputs, of 8 bits each. Operating at 40 MHz, this crosspoint provides over 3 GB per second of internal bandwidth and up to 10,000 MIPS of performance, it sets a new performance standard for single-board pipeline image processors.

Flexible, Modular Design

The minimum configuration for MaxPCI is a single board with four virtual surface image memories (VSIMs) of either 1 or 4 MB each, dual arithmetic units (AUs), advanced dual 16x16 look-up tables (LUTs), and a histogram and statistics processor, all built around the powerful non-blocking crosspoint. Customers may add an optional snap-in VSIM of 1, 4, or 16 MB.



Configurations may include one of several acquisition modules (MaxACQs) from Datacube. The MaxACQ daughtercards provide high throughput and simplify integration for a variety of analog and digital sensors including area, line-scan, and TDI types, in a range of resolutions.

MaxPCI configurations may also include up to two daughtercards from a new line of optional specialized processing and storage modules called PSMODs.

This modular approach allows application developers to balance processing, memory, and specialized resources for dramatic improvements in size, weight, and price/performance. The modular architecture makes both image acquisition and specialized image processing more affordable.

High Speed Image Access

High Speed Image Access (HSIA), resident on the MaxPCI board, allows high-speed transfers of pipeline data directly to the PCI bus. HSIA allows utilization of the host CPU to augment image processing with MaxPCI. For example, MaxPCI can process the bulk of the image processing data for a particular task and transfer the resulting area of interest over the PCI bus for additional analysis on the host computer, maximizing efficient and economical use of processing power.

For application developers who want to “plug and play,” Datacube offers a MaxPCI-based development system, as described below.

Software

Programmers will be able to develop applications quickly and effectively using powerful Datacube PC ImageFlow software in a Windows NT environment, along with a wide variety of industry-standard programming and productivity tools.

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PC ImageFlow is an object-oriented library of C-callable functions that synchronize multiple data transfers at frame rates, hiding the complexities of the hardware from the programmer. MaxPCI also supports the use of DatacubeWit, a visual development tool that allows users to represent processes graphically, encapsulating operations into higher-level C-callable functions and generating PC ImageFlow code.

The Datacube MaxVision Toolkit will also be available for application development on the MaxPCI. The Toolkit provides a system approach to programming common machine vision processes such as metrology, correlation, template matching, and blob analysis.



MaxACQ Acquisition Modules

MaxACQ, the new line of specialized acquisition modules for MaxPCI, provides high throughput and simplifies integration for a variety of analog and digital sensors, including area, line-scan, and TDI types in a range of resolutions. The MaxACQ specification is open, allowing third-party integration of non-standard sensor interfaces.

MaxPCI has an 80 MHz bandwidth connector for a single MaxACQ. The modules are field installable and the camera connector protrudes through the case for easy access. These new devices provide a robust, low-noise, easy-to-configure front end for analog

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