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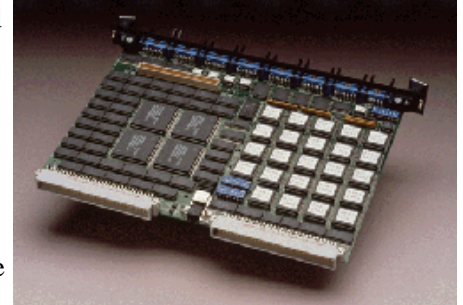
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VME Image Processing Sub-systems

APA512+ Feature Extraction Processor

Object tracking, continuous surface inspection, and discrete surface inspection tasks can be significantly accelerated and enhanced using the APA512+ Feature Extraction Processor. The MAXbus-compatible APA512+ is used in conjunction with [MaxVideo 250](#) and [MaxVideo 200](#) image processing subsystems for ultra-high-speed tracking, object recognition, and feature analysis.



- Significantly accelerates object tracking, continuous surface inspection, and discrete surface inspection tasks
- Used in conjunction with MaxVideo 250 and 200 for ultra-high-speed tracking, object recognition, and feature analysis.
- Each pixel within region-of-interest to 1Kx1K pixels can be analyzed with up to 4,096 descriptions stored in memory
- Hardware object size filtering allows the user to select ranges, thus preventing overhead from unwanted objects.
- Feature extraction software included for advanced analysis and tracking
- Enables high-resolution image acquisition, accurate stepper motor control, and predictive trajectory analysis

Full images or arbitrary regions-of-interest of up to 1Kx1K pixels can be passed to the APA512+ over the MAXbus. Each pixel within the region-of-interest can then be analyzed, with up to 4,096 descriptions stored in memory. Hardware object size filtering allows the user to select ranges, thus preventing overhead from unwanted objects. Feature extraction software is included allowing advanced analysis and tracking with a variety of CPUs and operating systems.

Frame-rate throughput makes possible high resolution image acquisition, accurate stepper motor control, and predictive trajectory analysis. Continuous materials can be inspected for designated shapes (defects) without loss of data. Paired with a MaxVideo 250 or MaxVideo 200 which acts as a front-end processor, the APA512+ provides flexible high performance data acquisition and data reduction.

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