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Vision Processors

Mamba-100
Pixel Processor

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New! Bob's Brain Snacks

OVERVIEW
The Mamba-100 is an advanced embedded vision processor with the ability to process very high-resolution images using the Coreco Auxiliary Bus (CAB), a dedicated high-speed (200 MB/second) board-to-board communication bus that channels all image data away from the host computer. The advanced technology of the Pentium III employs enhanced MMX instructions along with Streaming SIMD Extensions (SSE), memory and cache management instructions to speed up data processing. The image processing tasks involving MMX and floating point instructions now run faster as there is no MMX to floating point switching overhead involved. SSE utilizes 8 newly introduced 128 bit floating point registers in PIII, which are not shared with MMX instructions.

KEY FEATURES

- Up to 512 MB on-board SO-DIMM memory
- 12 I/O lines (8 opto-isolated TTL inputs, 4 TTL outputs)
- Dual CAB interfaces for maximum 32-bits @50MHz bandwidth when transferring images
- 100 Base-T Ethernet controller
- 48 MB DOC (DiskOnChip) for OS and program storage
- Windows NT Embedded Win32 based ensures software compatibility with applications
- Expansion capability for additional Mamba-100s

Product Resources

Contact Your Regional Product Specialist

Software Supported

Sapera™ Processing - Imaging Processing and Analysis
Sapera Processing is a Windows®- based comprehensive programming library for image processing and analysis. The Sapera Processing tools include Search, OCR, Barcode/Decoding and Blob Analysis.

Specifications & Application Notes

Data Sheet

Mamba-100 Benchmarks
Mamba CAB configurations
Mamba development guide for embedded vision applications
Sapera 5 CamExpert Quick Start Guide
Using Sapera Software with Matrox MIL

Frequently Asked Questions (FAQ)

Request a custom quote

Service and Support
Have a question? Need help? Our machine vision specialists are ready to help. Find a support office nearest to you.

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