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TECHNOLOGY GROUP

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Find the *Mango DSP Seagull* at our website: *Click HERE*

Products & Services

Our customers select us for our hands-on approach to solving complex problems

- Systems
- PMC Boards
  - Seagull PMC
  - Falcon PMC
- PCI Boards
- CPCI Boards
- 19" Rack Mounted
- VME Boards
- Professional Services

For Developers
Video Development Platform

At A Glance:
Product Locator
more info

Seagull PMC



- 4 TI DSP Processors C6415
- PMC Video Form Factor
- PCI 32 bit/33 MHz PMC Station
- 32 Mbytes SDRAM per DSP
- FLASH per DSP
- Extended I/O

Click to enlarge

First-Class Solution for Demanding DSP Applications

A powerful PMC platform that can fit onto any standard or PMC site. Designed with 4 TI C6415 DSP Processors, the Mango Seagull constitutes a compelling video processing and imaging solution. Combining multiple video I/O and DSP processing, the Seagull offers a programmable solution for even the most demanding video and imaging applications. Ease of design is further enhanced with the ready-for-use Mango video libraries such as the JPEG Encoding and MPEG-4 libraries. These video libraries include a comprehensive set of video compression encoders and decoders as well as many imaging functions. This architecture allows for high-speed user interfaces to be implemented with data transfers controlled via the FPGA. Furthermore, the FPGA functions as a co-processor to enhance the capability of video data manipulation.

Technical Overview

The Seagull interfaces with analog and digital video inputs via external connectors. Each DSP connects to the FPGA via a 133 MHz 16 bit high speed bus. This tightly coupled architecture allows the FPGA to act as an Input Control Mechanism and as a co-processor. The DSP's 32 bit 33 MHz PCI allows for standard inter DSP and Host connectivity. Each DSP has a 64 bit 133 MHz bus that connects to the 32 MBit of SDRAM and an additional 133 MHz 16 bit bus that connects to the Flash memory and the FPGA. A direct FPGA connection is provided via the 200-pin user connector.

Applications

- Video Surveillance
- Fingerprint Recognition
- HDTV
- Satellite
- Broadcast
- Biotechnology
- Nuclear Medicine
- Industrial
- Digital Radio
- Simulation
- Test Equipment
- Video Recording
- Weapon Control

Complete Host Processor Support

A full Mango Board Support Package is provided with the board. The Seagull is compatible with VxWorks and other Power PC operating systems. The DSP side is developed with TI's Code Composer Studio and works with DSP/BIOS RTOS. Also available are software libraries for video algorithms.

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