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Find the *Vecima / Alex Computer Systems SHARC3000* at our website: *Click HERE*

SHARCPAC Motherboards

The Alex SHARCPAC motherboard range supports the more popular bus architectures enabling SHARCPAC based systems to be integrated with a variety of host and standalone rack systems.

VME

SHARC6000



Hardware Features

- 6U VME SHARCPAC Motherboard
- D64 VME Master/Slave interface or 2 fixed SHARC nodes, each with up to 3MBytes zws SRAM and/or up to 16MBytes DRAM
- Two industry standard SHARCPAC module sites for adding further processors or I/O capability
- Expands up to 18 SHARC processors in a single VME slot offering,
- -2.16GFLOPS of CPU performance, -4.32GBytes/sec communications bandwidth
- System expansion via eighteen SHARCNET link ports.
- Flash EEPROM allows stand-alone booting operation.
- Scalable, multi-processor architecture.
- Supports comprehensive SHARCPAC product range.

Software

Fully compatible with Analog Devices development tools. Device driver support for Windows NT, Solaris, VxWorks & PowerUX. APEX real time multi-processor software support.

SHARC6000 Overview

The Alex SHARC6000 series 6U-VME board is the most flexible and highest performance VME-based DSP engine available. It can be configured with either 1 or 2 120MFLOP Analog Devices ADSP-2106x SHARC processors, and has the on-board capability to integrate a further 16 processors through two SHARCPAC module sites. Fully populated, the SHARC6000 delivers an aggregate performance of 2.16 GFLOPS and 4.32GBytes/sec communications band-width in a single VME slot!

The VIC64 chipset supports a Master/Slave VME interface with transfer rates of up to 70MBytes/sec. The 32 and 64-bit block transfer capabilities assure compatibility with other third party VME boards. The two on-board SHARC processors optionally have up to 16MBytes of 32-bit DRAM and up to 3MBytes of 48-bit zero-wait-state SRAM each. The VME Bus Master has access to the internal memory of SHARC-0 as well as its external SRAM and DRAM. These types of memory accesses provide a mechanism for program downloads and data transfers over the VME bus. The optional SHARC-1 processor serves as an independent processing node.

To maximize system performance all inter-processor communication takes place via the SHARC's six 40MB/sec link ports, thus removing the bottleneck of using the VME bus for all I/O communications. A total of 18 SHARC links are taken off board (2 through the P2 connector and 16 to the front panel), allowing large parallel networks to be configured with a board-

to-board bandwidth of over 700 Mbytes/sec.

Configuration, diagnostic, and system status LED's are displayed on the VME front panel together with a board reset button, a JTAG port, and up to 16 SHARCNET link-port connectors. Two 40Mbit/sec serial ports and an RS-232 port are also available.

All Alex products are compatible with the Analog Devices development tools, third party applications libraries, and APEX, a powerful real-time, multi-processor software toolbox. The SHARC6000 is one product in the constantly evolving Alex SHARC portfolio.

PCI

SHARC3000



Hardware Features

- Full length PCI SHARCPAC motherboard
- 32-bit Master/Slave PCI interface.
- 1 or 2 fixed SHARC nodes, each with up to 3MBytes zws SRAM.
- Two industry standard SHARCPAC module sites for adding further processors or I/O capability
- Expands up to 18 SHARC processors in a single PCI slot offering,
- -2.16 GFLOPS of CPU performance
- -4.32GBytes/sec communications bandwidth
- Flash EEPROM allows stand-alone operation.
- System expansion via eighteen SHARC link ports.
- Scalable, multi-processor architecture.
- Part of a comprehensive SHARCPAC product range.

Software

Fully compatible with Analog Devices development tools. Device driver support for Windows 95 and Windows NT. APEX real time multi-processor software support.

Overview

The Alex SHARC3000 series PCI board is the most flexible and highest performance PCI-based DSP engine available. It can be configured with either 1 or 2 120MFLOP Analog Devices ADSP-2106x SHARC processors, and has the on-board capability to integrate a further 16 processors through two SHARCPAC module sites. Fully populated, the SHARC3000 delivers an aggregate performance of 2.16 GFLOPS and 4.32GBytes/sec communications bandwidth in a single PCI slot!

The PLX chipset supports a Master/Slave PCI interface with transfer rates of up to 132MBytes/sec. The 32-bit block transfer capabilities assure compatibility with other third party PCI boards. The two on-board SHARC processors optionally have up to 3MBytes of external 48-bit zero-wait-state SRAM each.

The PCI Host has access to both the internal and external memory of SHARC-0. These types of memory accesses provide a mechanism for program downloads and data transfers over the PCI bus. The optional SHARC-1 processor serves as an independent processing node.

To maximize system performance all inter-processor communication takes place via the SHARC's six 40MB/sec link ports, thus removing the bottleneck of using the PCI bus for all I/O communications. A total of 18 SHARC links are taken off board (2 at the end plate and 16 off the top of the board), allowing large parallel networks to be configured with a board-to-board bandwidth of over 700MBytes/sec. In addition to the 2 SHARCNET link port connectors, the end plate also has a

JTAG port and a Global Reset in/out port. Two 40Mbit/sec serial ports and an RS-232 port are also available on-board.

All Alex products are compatible with the Analog Devices development tools, third party applications libraries and APEX, a powerful real-time, multi-processor software toolbox. The SHARC3000 is one product in the constantly evolving Alex SHARC portfolio

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ISA

SHARC1000



Hardware Features

- PC ISA SHARCPAC Motherboard
- 16-bit ISA interface supporting DMA Transfers
- Fixed SHARC node with up to 16MBytes DRAM or 3MBytes zws SRAM
- Three Industry standard SHARCPAC modules sites for adding further processor or I/O capability
- Expands up to 25 SHARC processors in a single ISA slot offering: -3 GFLOPS of CPU performance -6 GBytes/sec communications bandwidth
- System expansion via ten SHARCNET external link ports
- Scalable, multi-processor architecture
- Supports comprehensive SHARCPAC product range

Software

Fully compatible with Analog Devices development tools Device driver support for Windows 95 and Windows NT APEX real time multi-processor software support.

SHARC1000 Overview

The SHARC1000 is a high performance, multi-processor, flexible, scalable SHARC development platform for the PC-AT. Configured with three industry standard SHARCPAC sites and root processing node with local memory (up to 3MB of 48-bit wide zero-wait-state SRAM or up to 16MB DRAM), the SHARC1000 is the ideal solution for code generation or as an integral component within a system level design. The SHARC CPU offers balanced processor performance with high speed communication and, through the integration of every additional SHARCPAC module, the system performance expands simply and cost effectively by 120 MFLOPS and 240MBytes/sec (via six 40MByte/sec link ports) inter-processor communication. Based on today's SHARCPACs, the performance for a single slot PC-AT motherboard is an outstanding 3 GFLOPS with a communication bandwidth of 6GBytes/sec, assuming all environmental and power requirements are met. The SHARC1000 is fully interconnected allowing user defined parallel topologies. Multiple motherboards can be interconnected at full speed via ten industry standard SHARCNET connectors allowing large parallel networks to be configured. To aid operation and debugging, status LED's, a JTAG connector, and a time-division-multiplexed serial port are made available. All Alex products are compatible with the Analog Devices development tools, third party applications libraries and APEX, a powerful real time, multi-processor software toolbox. The SHARC1000 is one product in the constantly evolving Alex SHARC portfolio.

Processor SHARCPAC Modules

Application Specific & I/O Modules

System Architecture

SHARCPAC - An Open Standard

SHARC System Hardware

SHARC System Software

Engineering Services

Product Summary

Support Services

Applications

SHARCPAC Motherboards | Processor SHARCPAC modules | Applications Specific & I/O modules

SHARC device overview | System Architecture | SHARCPAC - an open standard | SHARC System Hardware | SHARC System Software | Engineering Systems | Product Summary | Support Services | Applications

Alex Corporate Profile

"Embedded Systems" SHARC Products

Contact Information

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