ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

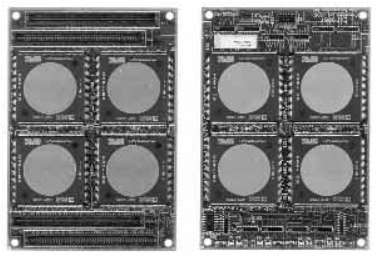
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Vecima / Alex Computer Systems SHARCPAC-DSP8* at our website: *Click HERE*

01 SHARC for ADI 3/15/99 11:59 AM Page 31

SHARCPAC-DSP8

Octal ADSP-2106x SHARCPAC Module



- **Scaleable, multiprocessor SHARC-based architecture**
- **Industry-standard SHARCPAC form-factor**
- **Eight ADSP-2106x SHARC processors**
- **960 MFLOPS aggregate core performance**
- **System expansion via sixteen SHARC link ports**
- **Advanced software support from the APEX parallel development toolsets**
- **Fully compatible with Analog Devices software development tools**
- **Part of a comprehensive SHARCPAC product range**

The SHARCPAC-DSP8 module with its eight 120 MFLOP ADSP-2106x SHARC® DSP processors on a single 3.1" x 4.5" SHARCPAC module is the ultimate SHARC-system enhancement module. The SHARCPAC-DSP8 is intended for use on parallel SHARC where the data and code can be partitioned to fit in the internal memory of each SHARC and processor density is of the highest priority. The modular format of the SHARCPAC-DSP8 allows it to be used for system expansion on any system form-factor.

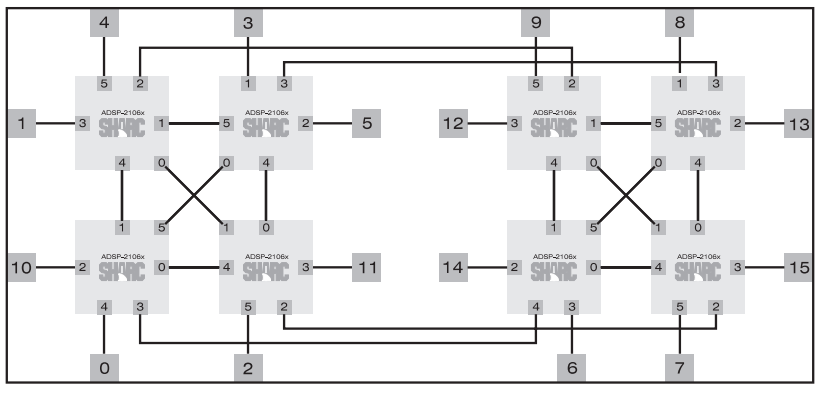
Sixteen of the 8 SHARC processor's six high-speed link ports are brought out to the SHARCPAC connectors for integration with SHARC processors on the motherboard, or other SHARCPAC module sites, in a manner consistent with a distributed memory architecture. The SHARCPAC-DSP8 also brings flag, IRQ, and JTAG signals to the SHARCPAC connectors to further facilitate system integration. The module is designed to be link booted.

The internal link port topology of the SHARCPAC-DSP8 is that of two 4-SHARC layers. Within each layer each processor has a direct link connection to every other, as well as a single connection the processor just opposite in the other layer. Arranging the link ports in this way allows users to integrate multiple SHARCPAC-DSP8s and multiple SHARCPAC motherboards to create a convenient mesh-like system topology. Systems of this kind can be scaled to any size while still retaining their homogeneous network structure and thus provide an excellent platform for scaleable data-parallel applications like image processing. The SHARCPAC-DSP8 can also be integrated into other SHARCPAC based systems to add pure processing power.

All SHARCPAC modules are supported by a range of SHARCPAC motherboards allowing their integration into a variety of environments. Adopting the SHARCPAC module standard enables users to easily construct flexible, high-performance, commercial-off-the-shelf DSP systems, which can scale simply by adding additional modules and motherboards. This approach reduces the product design cycle and development costs, resulting in a far quicker time to market.

The complete line of hardware products is supported by the APEX software tools family (APEX-Lite, APEX-Pro, and APEX-Debug), providing advanced software support for distributed application development, debugging, and optimization. Spectrum hardware products are also fully compatible with the Analog Devices development tools, and a number of other third-party products.

The SHARCPAC-DSP8 is one product in the constantly evolving SHARC portfolio.



Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

01 SHARC for ADI 3/15/99 11:59 AM Page 32

SHARCPAC-DSP8

Octal ADSP-2106x SHARCPAC Module

Technical Specifications

Module Format
Industry-standard SHARCPAC form-factor (4.5" by 3.1").

Module Interface
Sixteen 40MBytes/s SHARC link ports.
Flag and IRQ signals.
JTAG signals.

SHARC Processor
Eight ADSP-21060 or ADSP-21062 SHARC processors.
120MFLOP, 40MIPs Floating-Point DSP running at 40MHz.
240MBytes/s external memory bandwidth.
240MBytes/s link port bandwidth.
10 independent DMA controllers.

SHARC Internal Memory
ADSP-21060: 4MB 0ws, dual-ported SRAM.
ADSP-21062: 2MB 0ws, dual-ported SRAM.

SHARC External Memory
None.

SHARC Link Ports
Sixteen high-speed link ports exported over module interface.
Each link can operate independently and simultaneously.

Connectors
Industry-standard SHARCPAC connectors.

Software
Supported by APEX software development suite.

Power Requirements
Requires +5V supply only.

Operating Environment
0˚C to 50˚C.

Note
Special cooling or power arrangements may be necessary.

Spectrum Signal Processing Inc. In North America and Asia: +1•604•421•5422 In Europe: +44•131•466•8080 **www.spectrumsignal.com**

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP