

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.

Visit our website - *Click HERE*

Prototype & Dev.
PCI
Standalone
Embedded Standard
PC/104
CompactPCI
PMC
VME
Application-Specific
Board-Level
Integrated Circuits
I/O Mezzanines
Software Dev. Tools
Systems

Snaggletooth-PCI

Dual ADSP-2106x SHARC PCI Board

PDF Datasheet | Press Release | Product Description | Block Diagram | Ordering Info

Technical Specifications

System

Processors

- Two Analog Devices ADSP-2106x SHARC DSPs

External Memory

- One bank of up to 512K × 48 bits (3 MB) zero wait-state SRAM, in addition to the SHARCs' on-chip SRAM, shared by both SHARCs

Link Ports

- Six links per on-board processor
- Four external link ports from on-board processors

I/O Interface

- BITSI Rev. 2 mezzanine site supports four SHARC link ports, three serial ports, and a 32-bit data bus.

SHARCPAC Interface

- The SHARCPAC Rev. 1.2 module site supports sixteen link ports, three serial ports, interrupts, flags, and access to the SHARC processor bus
- SHARCPAC modules can expand program and data memory, add multiple

and four from the **SHARCPAC** interface

Serial Ports

- Two serial ports per on-board processor
- All four external serial ports connected to on-board processors (two from each processor)

PCI Interface

- The PCI interface provides 32-bit master/slave (132 MB/sec peak transfer rate) access to the SHARC processors
- All internal SHARC memory, IOP registers, and external memory is mapped to PCI memory space
- Supports hardware interrupts in both directions and host-based booting of SHARCs

processors, or supply custom I/O interfaces

Debug Port

- 14-pin IDC header for IEEE JTAG 1149.1 boundary scan with extensions for in-circuit emulation
- Supports Analog Devices' EZ-ICE emulator.

Power

- 1.5 A @ 5 V typical, 2.5 A max (not including optional BITSI mezzanine)

Size

- 12.283" × 4.5" (4.825" including edge connector)

ADSP-2106x SHARC Processor

Processing Rate

- 40 MHz, 25 ns instruction rate, 120 MFLOPS, 40 MIPS

Arithmetic

Off-chip Addressing

- 4 Gigawords addressable memory space
- Memory addressable as 16-, 32-, 40-, or 48-bit

- 32/40-bit floating point, 32-bit integer

On-chip Memory

- 2/4 Mbits (21062/21060) dual-ported SRAM organized ×32 or ×48

words
- Programmable wait-state generation

I/O

- Integrated I/O processor with ten-channel DMA controller, six 40-Mbyte/sec link ports, and two 40-Mbit/sec serial ports

Software (optional)

Host Interface

- DSP21k Toolkit: C-callable library of board control and communications routines. Available for 32-bit applications under Windows 95 and Windows NT
- Porting kit available for other OS platforms

Development Tools

- Analog Devices ANSI C compiler, assembler, linker, and simulator

Copyright©, 2003 B**ittWare, Inc.**
31B South Main St. Concord, NH 03301 603-226-0404

Questions or comments about this site? E-mail webmaster@bittware.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