



# Artisan Scientific

QUALITY INSTRUMENTATION ... GUARANTEED

## Looking for more information?

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- Price Quotations
- Drivers
- Technical Specifications, Manuals and Documentation

## Artisan Scientific is Your Source for Quality New and Certified-Used/Pre-owned Equipment

- Tens of Thousands of In-Stock Items
- Hundreds of Manufacturers Supported
- Fast Shipping and Delivery
- Leasing / Monthly Rentals
- Equipment Demos
- Consignment

### Service Center Repairs

Experienced Engineers and Technicians on staff in our State-of-the-art Full-Service In-House Service Center Facility

### InstraView™ Remote Inspection

Remotely inspect equipment before purchasing with our Innovative InstraView™ website at <http://www.instraview.com>

### We buy used equipment! We also offer credit for Buy-Backs and Trade-Ins

Sell your excess, underutilized, and idle used equipment. Contact one of our Customer Service Representatives today!

Talk to a live person: 888-88-SOURCE (888-887-6872) | Contact us by email: [sales@artisan-scientific.com](mailto:sales@artisan-scientific.com) | Visit our website: <http://www.artisan-scientific.com>



**CHEETAH VME**

Cheetah is a high performance digital signal processing board optimized for high-bandwidth, low-latency digital signal processing applications. It is an excellent match for accelerating frequency-domain algorithms in applications requiring state-of-the-art performance. The VME form factor provides excellent integration with VME backplane systems. The input and output PMC daughtercards allow for high speed data movement in a variety of formats without going across the host bus.

**COMPUTING**

- Software Support . . . . . Driver support includes VX Works, MCOS and Windows NT 4.0. DRS-TS software API and System Development Framework (SDF) included. Also supported is a large class of libraries and DSP functions such as FFTs, fast convolutions, polyphase filters, and matched filters.
- Processing Speed: . . . . . 120 MHz clock rate
- PCI Signaling: . . . . . 64-Bit 66 MHz at 3.3V (transfers at 60 MHz)
- Performance (throughput)\*: . . . . . 1K CFFT in 9.8 microseconds  
 . . . . . 256K CFFT in 3.3 milliseconds  
 . . . . . \*Performance can be improved by stacking
- The CheetaH processing engine can perform windowed FFTs at the following maximum achievable rates:
  - FFTs with complex inputs:
    - 16 to 256 points . . . . . 240 Complex MSPS
    - 512 to 64K points . . . . . 120 Complex MSPS
    - 128K to 256K points . . . . . 80 Complex MSPS
  - FFTs with real inputs:
    - 32 to 512 points . . . . . 240 Real MSPS
    - 1K to 128K points . . . . . 160 Real MSPS
    - 256K to 512K points . . . . . 120 Real MSPS

**POWER**

- Max current at 5V . . . . . .6A
- Max current at 3.3V . . . . . .6A

**ENVIRONMENTAL**

- Operating temperature . . . . . 0° to 50°C
- Cooling . . . . . 500 LFM minimum

Also available in PMC and PCI versions. Consult factory for details.



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