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Find the *Leonardo DRS / Catalina Research CHEETAH VME* at our website: *Click HERE*



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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