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TECHNOLOGY GROUP

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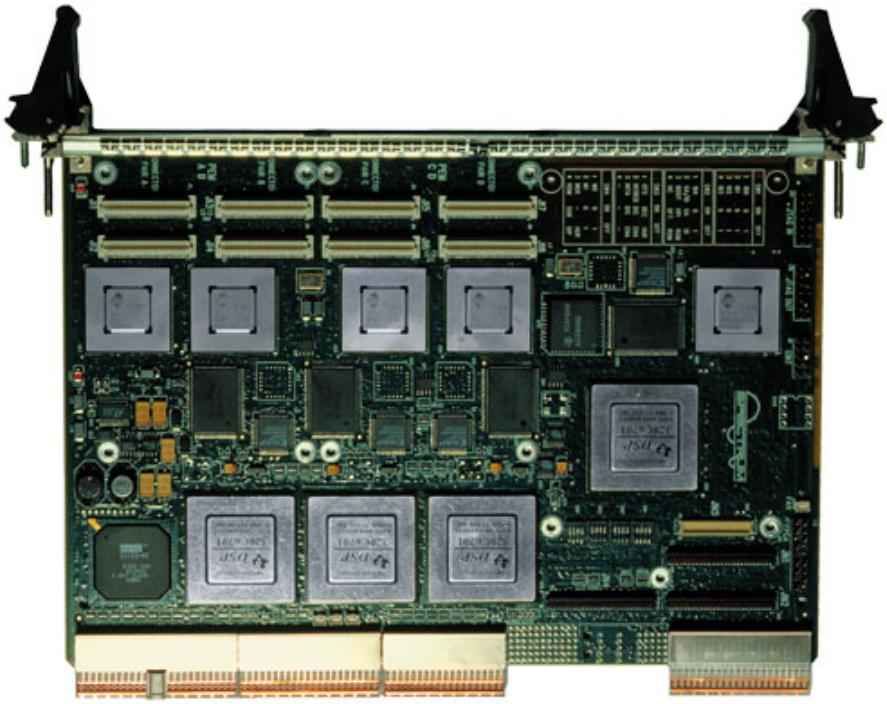
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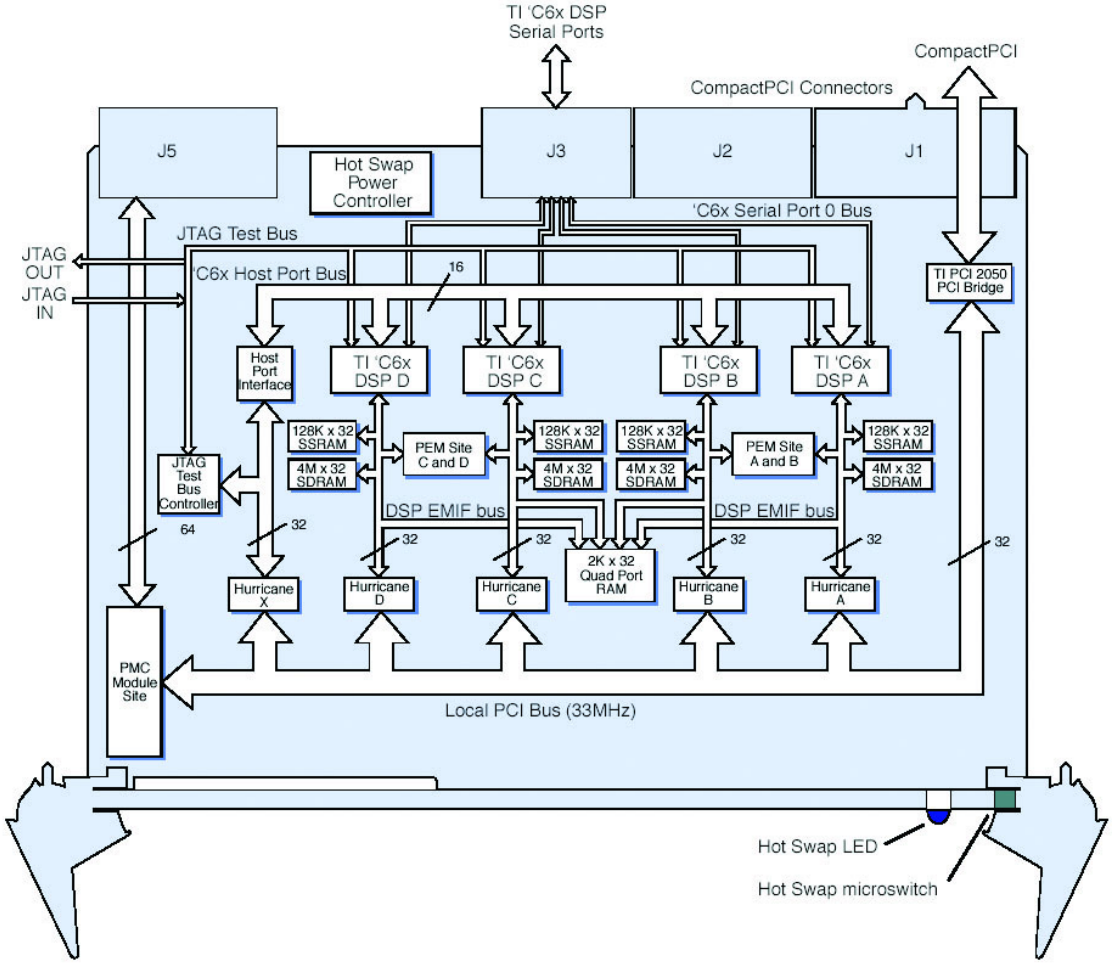
Find the *Vecima / Spectrum Signal Processing SRM* at our website: *Click HERE*



Barcelona

Quad ‘C6201 or ‘C6701 Hot SwapCompactPCI® Processing Engine

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Overview

Spectrum's Barcelona-HS board is a Quad 'C6201 or 'C6701 DSP processing engine provided ina Hot Swap 6U CompactPCI form factor. Barcelona-HS combines all the necessary multiprocessor DSP hardware and software tools to begin development for high availability(HA) systems. This board comes equipped with either four TMS320C6201 fixed-point DSPprocessors, or four TMS320C6701 floating-point DSP processors from Texas Instruments. The'C6201 and 'C6701 DSP uses TI's high-performance VelociTI™ VLIW architecture which includes32 general purpose 32-bit registers, 6 arithmetic logic units (ALUs), and two 16-bit multiplierswhich generate a 32-bit result. When combined with Spectrum's Hurricane PCI bridge ASIC ina distributed shared memory architecture, the Barcelona-HS board provides more than twicethe inter-processor communications bandwidth of traditional architectures.

Features and Benefits

Features

- Full compliance with PICMG Hot SwapSpecification 2.1 R2.0
- Choice of four 200 MHz 1600 MIPSTMS320C6201 processors or four 167 MHz1 GFLOPS TMS320C6701 processors
- 32-bit, 33 MHz 6U CompactPCI board
- 2 MB of SBSRAM and 64 MB of SDRAM
- 2K x 32 quad port memory for low latencyand deterministic inter-processorcommunication
- Hurricane, a single-chip PCI bridgeoptimized for DSP systems
- Flexible I/O interfaces
- Comprehensive software support includinghot swap drivers

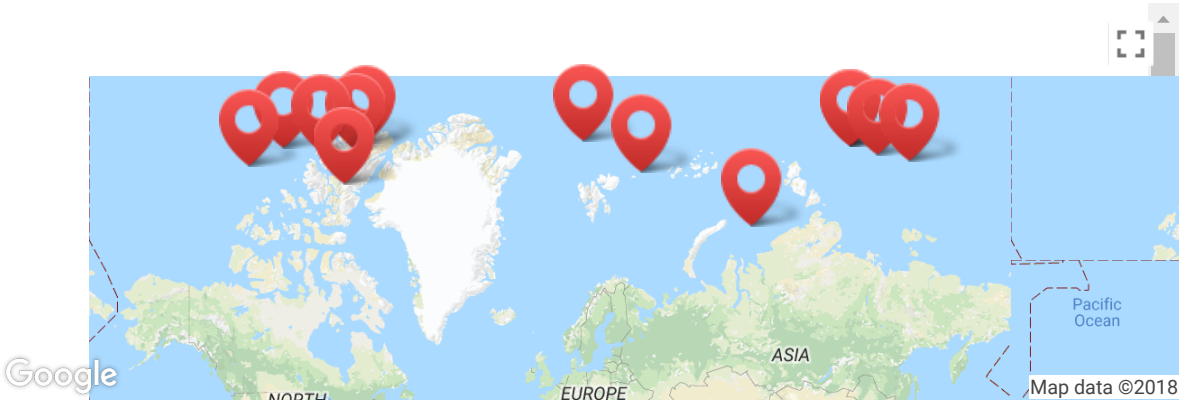
Benefits

- Fully hot swappable
- Powerful fixed-point or floating-point DSPsignal processing engine
- Ultra-high bandwidth mezzanine interfacesdirectly to DSP to eliminate bottlenecks
- Board architecture eliminates double-handling of data and provides greater thantwo times the inter-processorcommunications bandwidth of traditionalarchitectures

Applications

Ideal for high-availability applications such as satellite earth stations, signal monitoring,surveillance, tactical radio systems and cellular base stations

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