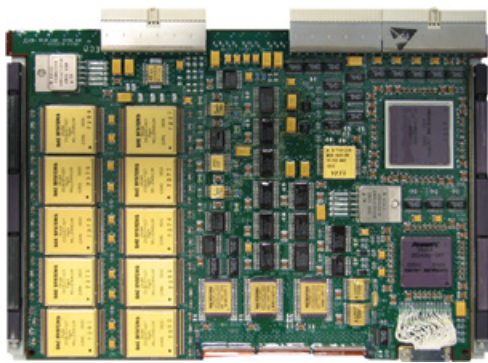


RAD750[®] 6U CompactPCI single-board computer



The 6U CompactPCI singleboard computer, available in seven configurations, employs the PowerPC RAD750[®] microprocessor, the radiationhardened version of the IBM PowerPC750 microprocessor. The companion Power PCI Bridge ASIC provides access to the memory and the PCI version 2.2 backplane bus.

Key features

- Example startup ROM and VxWorks boardsupport package provided for all hardware configurations
- Green Hills Software's INTEGRITY real-time operating system can serve as an alternate board support package
- Hardware reference manuals and software user guide provided
- Software developed for the RAD6000[®] processor is easily ported to RAD750[®] computers
- All compilers currently available for the commercial PowerPC 750 microprocessor are fully compatible with the RAD750[®]
- Operating systems for PowerPC 750-based computers are easily ported to RAD750[®] computers- VXWorks and INTEGRITY operating systems available
- Virtutech offers a RAD750[®] simulator

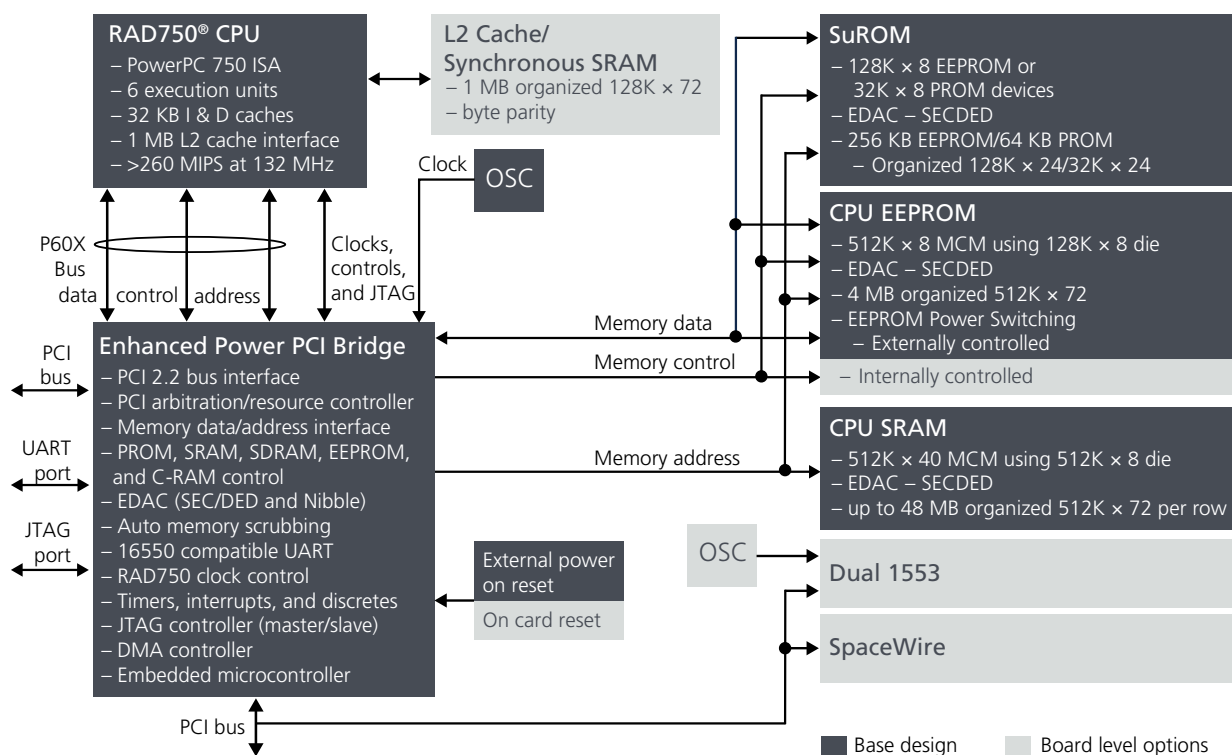
Supports variable memory configurations:

- SRAM:
 - 16-MB standard
 - Options from 4 MB to 48 MB and ECC
 - Device-sparing
- SUROM:
 - 64 kB and ECC
 - EEPROM for engineering units (256 kB to 1 MB)
 - PROM for flight units (64 kB to 256 kB)
- EEPROM:
 - 4 MB and ECC

Specifications

Form factor	CompactPCI 6U (233 mm x 160 mm) CompactPCI 6U-220 (233mm x 220mm) Weight: 1000 to 1220 grams, varies with memory
Memory	SRAM: 4 to 48 MB EEPROM: 4 MB
Radiation-hardness	Total dose: >100 Krad (Si) SEU: 1.9 E-4 errors/card-day (90 percent W. C. GEO) varies with orbit Latchup-immune
Performance	>260 Dhrystone 2.1 MIPS at 132 MHz 4.3 SPECint95 4.6 SPECfp95 at 132 MHz
Power supply	-5 volts ± 10 percent and 3.3 volts ± 5 percent (2.5 volts generated via onboard regulator)
Power dissipation	11 to 14 watts
Rail temperature range	-28 degrees celsius to +70 degrees celsius

RAD750 6U flexible architecture



RAD750[®] family of products

RAD750[®] radiation-hardened PowerPC microprocessor
 RAD750[®] 6U CompactPCI single-board computer
 RAD750[®] 6U CompactPCI extended single-board computer

RAD750[®] 3U CompactPCI single-board computer
 RAD750[®] space computers Virtutech Simics virtual platform
 RAD750[®] custom single-board computers

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For more information contact:

BAE Systems

9300 Wellington Road
 Manassas, Virginia 20110-4122

T: 571 364 7777

W: baesystems.com/spaceproducts

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