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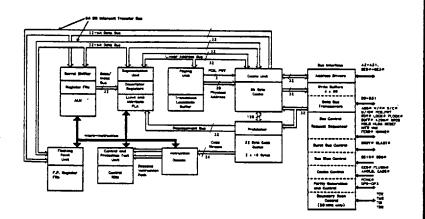
Radiation 80486DX2RP

Hardened

High Speed CMOS 32-Bit Microprocessor

For Space Applications

> SEI's 80486DX2RP (RP for RAD-PAK*)high speed CMOS microcircuit features a minimum 100 kilorad (Si) total dose tolerance. Using SEI's radiation hardened



RAD-PAK* packaging technology, the 80486DX2RP is fully equivalent to the commercial 80486DX2 from Intel. This device is a 32-bit architecture with onchip memory mangement, floating point and cache memory units. On-chip cache memory allows frequently used data and code to be stored on-chip reducing accesses to the external bus. A clock doubler has been added to speed up internal operations to twice that of a device running with the same bus clock. The 80486DX2RP also contains a memory management unit (MMU) which consists of a segmentation unit and a paging unit. Segmentation allows management of the logical address space by providing easy data and code relocatibility and efficient sharing of global resources. The paging mechanism operates beneath segmentation and is transparent to the segmentation process. SEI's RAD-PAK® advanced technology incorporates radiation shielding in the microcircuit package. It eliminates box shielding while providing lifetime in orbit. This device provides a total dose survivability of greater than 100 krad(Si). It is available in Class S packaging and screening.



Tel: (619) 452-4167 Fax: (619) 452-5499 INTERNET: 102005.1635@COMPUSERVE.COM

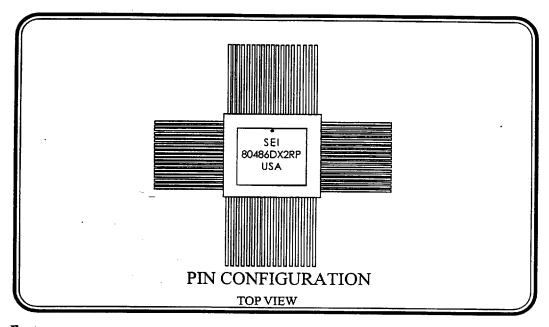
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Radiation Hardened

80486DX2RP

High Speed CMOS 32-Bit Microprocessor



Features

- Pin Compatible with Intel 80486DX2
- RAD-PAK® Radiation Hardened Against Natural Space Radiation
- Total Dose Hardness >100 krad (Si)
- SEU Performance
 - LET Threshold = 5-6
- Package:
 - 172 Pin RAD-PAK® quad flat pack (2.50 in. x 2.50 in.)
 - Weight 17 grams
- High Speed CHMOS V Technology
- 80, 106 Mbyte/sec Burst Bus
- 8 General Purpose 32 Bit Registers
- Very Large Address Space
 - 4 Gigabyte Physical
 - 64 Terabyte Virtual

- 5 V Only Power
- Multiprocessor Support
 - Cache Consistency Protocols
 - Support for Second Level Cache
- IEEE 1149.1 Boundary Scan Compatibility
- High Performance Design
 - 50 MHz/66 MHz Core Speed using
 25 MHz/33 MHz Bus Clocks
 - Dynamic Bus Sizing for 8, 16, and 32-Bit Buses
- Self Test Capability
- On-Chip Debugging Aides
- Floating Point Unit
- Class S Screening per TM 5004
- QCI per TM5005

Specifications and design are subject to change without notice



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For Further Information Contact:

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