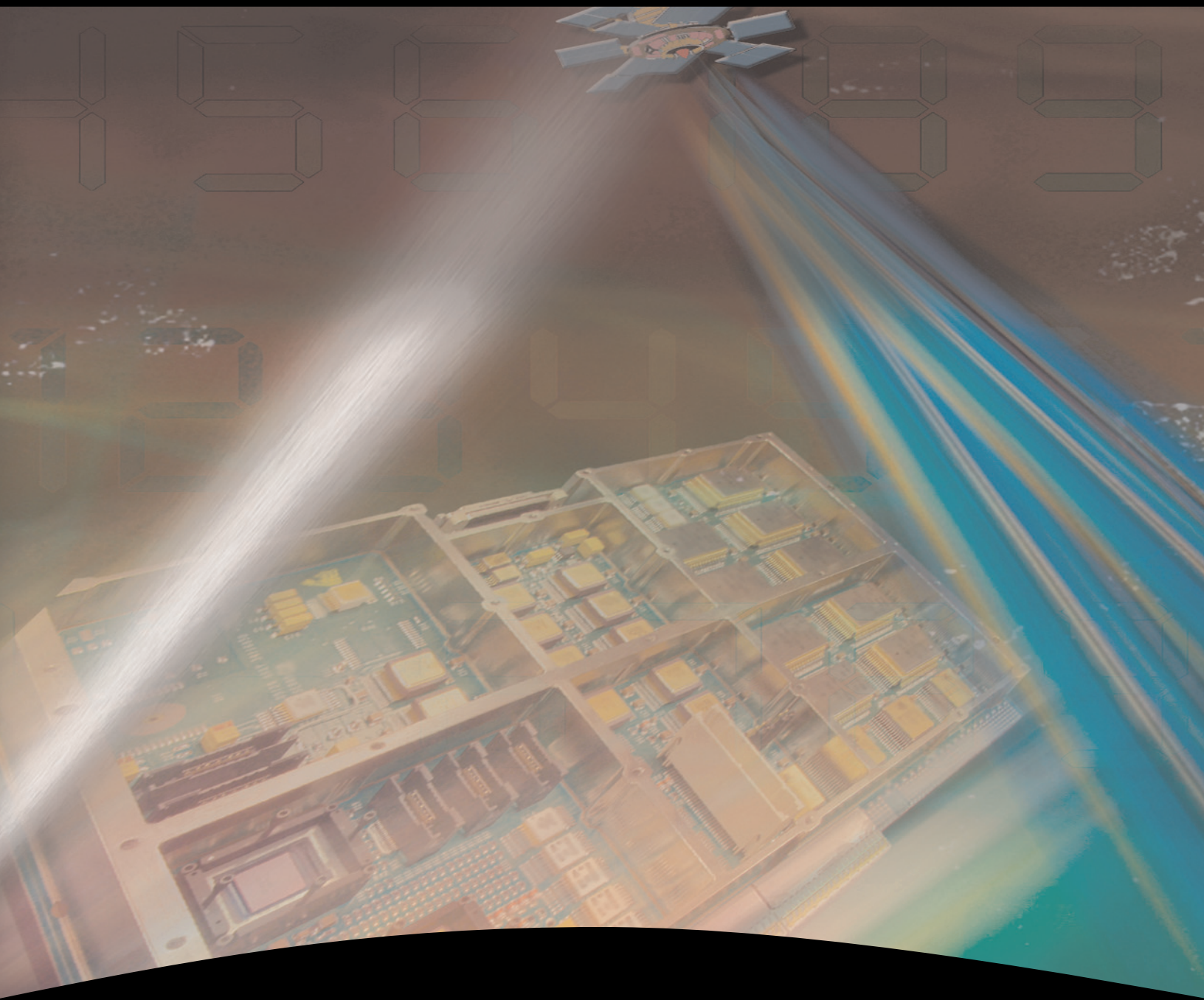


RHPPC Single Board Computer

Honeywell



**Designed for Military, Civil, and
Commercial Spacecraft and
Payload Processing Applications**

RHPPC Single Board Computer

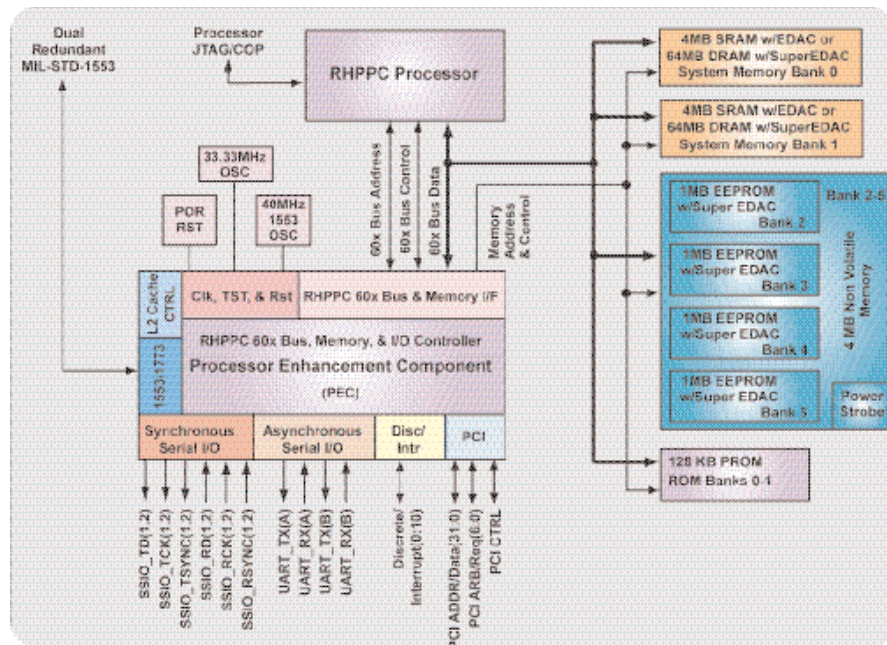
Features

- Radiation hardened to withstand the destructive effects of space
- 100% compatible with Motorola's PowerPC 603e™ processor
- High performance, low power
- 10x faster than current technology
- cPCI backplane, RS422, and 1553 I/O
- RHPPC 100 MHz/167 DMIPS, 16 KB I&D caches
- PEC is the RHPPC companion chip and is similar to the MCP 106

- Memory with EDAC and scrubbing:
 - 8 MB hard SRAM or 128MB DRAM
 - 4 MB EEPROM
 - 128 KB SUROM
- cPCI backplane bus, 32 bit, 33 MHz
- I/O
 - Dual Redundant 1553 B upgradable to dual rate AS1773
 - Two serial port, full duplex, RS422
 - Discretes and interrupts
- Five general purpose timers, two stage watchdog timer and a mission timer
- 6U x 220 form factor, 2.2 lb 11W (nom)
- - 40°C to 80°C rail temperature
- Ps>0.99, 15 years, 35°C (with cold spare)
- TID>100Krad, no SEL, SEU rate <4.8E-5/day, Adams 90 percent WC, GEO

Application Support

- All commercial PowerPC603e™ tools and OS
 - C/C++ and Ada 95 tools
 - Tornado™ /VxWorks™ realtime OS
- Prototype Development Unit (PDU) for quick prototyping and hardware/software integration ahead of flight hardware



RHPPC Single Board Computer Block Diagram

Find out more

For more information regarding the Single Board Computer, contact us at:
<http://www.honeywell.com/sites/aero/Space.htm>

Honeywell

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