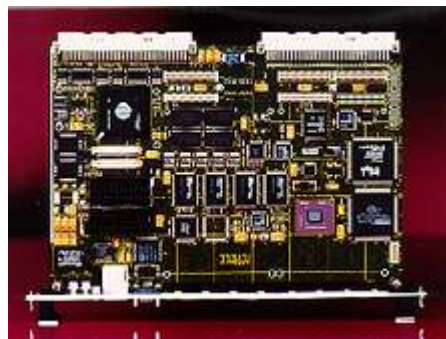


## PowerCore



### **Flexible Core Architecture Provides Choice of Standard Solutions for Embedded Real-Time Applications**

FORCE's PowerCore product family offers designers a modular design concept which provides flexible, PowerPC-based solutions for differing OEM requirements in the embedded computing market. PowerCore is a single slot VME CPU which provides the "building blocks" to create optimized solutions for specific applications. The concept includes the choice of the latest PowerPC processors, I/O options including PMC expansion, a broad choice of real-time operating systems, and a range of memory options.

The PowerCore family incorporates the latest PowerPC technology and is well suited for mid- to high-end real-time applications in telecommunications, industrial control, and command and control environments. The entry level PowerCore single board computer is based on the PowerPC 603e. Running at 120 MHz, it delivers a performance of 3.0 SPECint95 and 2.2 SPECfp95. Higher-performance applications can be better served with the PowerPC 604e version running at 200 MHz to provide 7.4 SPECint95 and 5.8 SPECfp95. The processing performance may be increased by an optional onboard second level cache.

Two slots for PCI Mezzanine Cards (PMC) are provided with PowerCore providing additional flexibility by incorporating a variety of available graphic and I/O options. A broad range of real-time operating systems including: CHORUS/Classix(tm), LynxOS(tm), OSE(r) Delta, pSOSystem(tm), VRTX/OS(tm), and VxWorks(r)/Tornado(tm) are supported.

### **Benefits:**

- Provides flexibility, I/O modularity and optimized cost/performance for tailoring embedded OEM real-time applications
- Two PCI Mezzanine Cards (PMC) slots for adding a broad range of graphic and I/O options
- Support of major Real-Time Operating Systems reduces time-to-market and protects software investments
- Ethernet interface simplifies use in a networking application
- Onboard DRAM memory and field upgradeable memory modules simplify design scalability

- One VMEbus slot reduces the overall system overheads and increases the level of scalability and integration
- Ideal for mid- to high-end telecommunications, industrial control and C3I applications

### Feature highlights

- PowerCore Processor Options:
  - 603e at 120MHz (3.0 SPECint95/2.2SPECfp95)
  - 603ev at 166 MHz (3.9 SPECint95/2.5SPECfp95)
  - 604e at 200 MHz (7.4 SPECint95/5.8 SPECfp95)
- 16 MByte on-board EDO DRAM
- More than 256 MByte via user upgradable memory modules
- High performance memory controller with a memory address range of up to 1 GByte
- Up to 1 MByte of on-board L2 cache
- Up to 8 MByte of on-board User flash memory
- 10Base-T Ethernet interface via Fast Ethernet controller
- Two slots for PMC modules. User I/O signals for both PMC slots available VME P2
- Single-slot 6U VME board
- Direct PCI-to-VME64 interface
- Optional 5-row VMEbus P2 connector
- One serial interface
- Supports all major Real-Time Operating Systems, like CHORUS/Classix, LynxOS, OSE Delta, pSOSsystem(c), VRTX/OS, and VxWorks/Tornado(c)

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