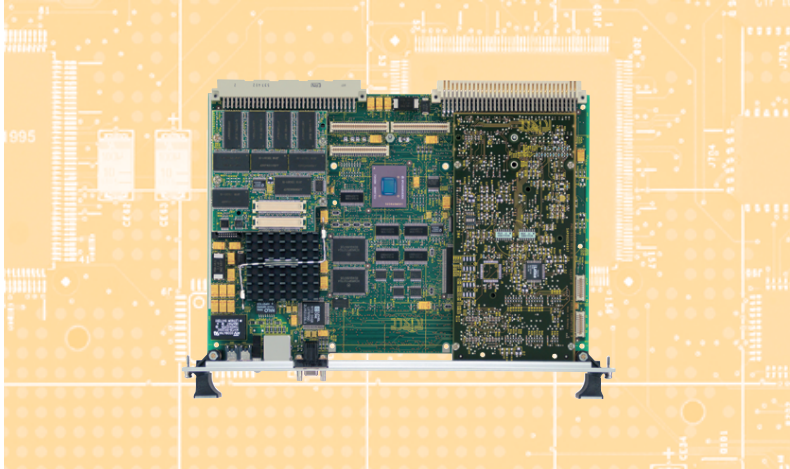


## PowerCore-6750 and 6750-SSIO The Next-Generation High-Performance PowerPC Card for VME



*PowerCore -6750  
and 6750-SSIO*

■ **Telecommunications**

■ **Datacommunications**

■ **Industrial Control**

■ **Government**

### Features

High-performance PowerPC Real-time Engine (6750-SSIO: with Extended I/O)

- PowerPC 750, 300/400 MHz, 1 MByte L2 cache; 233 MHz, 512 KByte L2 cache
- 16 to 256 MByte DRAM (SDRAM or EDO/ECC)
- 4 or 8 MByte User Flash, 512 KByte Boot Flash
- 10BaseT/100BaseTx Ethernet port (6750-SSIO: 10BaseT/100BaseTx Ethernet or AUI Ethernet, Fast Wide SCSI-2 port)
- Two serial ports (6750-SSIO: six serial ports)
- Two PMC slots (6750-SSIO: one PMC slot)
- Programmable watchdog
- Single slot design, VME64

### Highlights

The PowerCore-6750™ and 6750-SSIO™, two new boards in Force's PowerCore™ product family, combine enhanced processor performance with the VME architecture. VMEbus modularity allows you to choose from dozens of hardware and software configurations, so you'll adapt system designs to specific applications quickly and easily. You can also capitalize on the outstanding performance and throughput of the VME architecture, the world's most widely used 32/64-bit bus architecture for embedded applications. You'll focus on product enhancements instead of basic computing. And deliver superior systems for the industrial and telecommunications markets.



### Processor Subsystem

#### Processor

- PowerPC 750, 233 MHz, 300 MHz or 400 MHz
- L2 Cache: 512 KByte (233 MHz) or 1 MByte (300, 400 MHz)

#### Local Bus

- PCIbus connecting processor to local I/O devices, PMC slots, and VMEbus interface connecting processor to local I/O devices

#### Main Memory

- Up to 192 MByte EDO DRAM with ECC or 256 MByte synchronous DRAM for high-performance access on memory modules

#### User Flash Memory

- 4 MByte (233 MHz) or 8 MByte (300, 400 MHz) on-board

### I/O Capabilities

- Fast Ethernet controller 21143A, 100BaseTx on front panel
- Five row P2 connector for extended rear I/O access
- Two RS-232 serial ports on front panel

#### PMC Expansion

- Two free slots with VME P2 interface

### I/O Capabilities on SSIO

- Fast Ethernet controller 21143A, 100BaseTx on front panel or AUI via rear I/O interface
- Fast/wide SCSI-2
- Five-row P2 connector for extended rear I/O access
- Six RS-232 serial ports
  - Two on front panel, four via VME P2

#### PMC Expansion

- One free slot with VME P2 interface

### VMEbus Interface

#### VMEbus Master

- A32, A24, A16, D64, D32, D16, D08/UAT, RMW, BMLT, BLT32

#### VMEbus Slave

- A32, D64, D32, D16, D08UAT, RMW, MBLT, BLT32

#### Arbiter

- Four-level with arbitration watchdog
- Interrupt Handler
- Seven levels
- Five row P2 connector

### Software

- VxWorks Tornado
- Third-party software support
  - OSE Delta
  - pSOSystem
  - LynxOS

Contact your sales representative for availability of additional RTOS ports

### Environmental

#### Operating Range

- Temperature: 0°C to +55°C with forced air cooling
- Relative Humidity: 5% to 95% @ 40°C (non-condensing)

#### Storage Range

- Temperature: -40°C to +85°C
- Relative Humidity: 5% to 95% @ 40°C non-condensing

### Dimensions

- Single slot 6U VME
- 6.29" x 9.18", (160 mm x 233.5 mm)



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**Force Computers is the Partner of Choice for Open, Scalable, Highly Available Embedded Computing Platforms to the leading OEM's in the Communications Market**

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