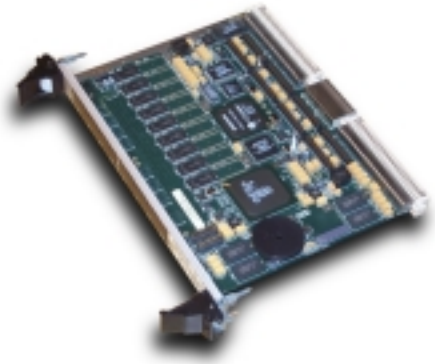
V Rose Microsystems, Inc.

VRM-VME-7410

Product Datasheet

Overview:

The **VRM-VME-7410** is a PowerPC based, single board processor card with a PowerPC 7410 microprocessor. The module provides two PMC option cards. These sites may be used to hold either industry standard PMC modules or processor PMC (PPMC) modules. The **VRM-VME-7410** features superior environmental performance and enhanced fault detection and isolation features. The **VRM-VME-7410** is compatible with a large number of industry standard operating systems, development tools, and application software.



Features:

- Convection cooling
- 1 Motorola AltiVec (G4) PowerPC processor on the base card
- MPC7410 (“Nitro”) at 400/450/500 MHz
- 64 bit “60x” Host bus at 100 MHz
- Up to 2MB of L2 cache
- Up to 8MB of boot FLASH memory
- Up to 128MB of user FLASH memory
- Up to 2GB of PC100 SDRAM with ECC
- 2 PMC sites
  - 64 bit PCI, 33MHz, 5V for PMC#1
  - 64 bit PCI, 66/33 MHz, 3.3V for PMC#2
  - front panel I/O (convection-cooled modules)
  - rear panel I/O (64 user signals per site to VME connectors)
- 10/100 Base T Ethernet
- VME64 interface
- 2 asynchronous serial ports (1 EIA-232, 1 multi-protocol EIA-232/EIA-422)
- 2 synchronous serial ports (EIA-422)
- 16 bit Discrete I/O port
- 8 counter/timers (32 bit)
- Interrupt controller (SMP compatible)
- DMA controller (chained)
- Real time clock
  - Backup using VME standby voltage
- Non-Volatile RAM (32KB)
  - Backup using AutoStore nvSRAM
- Watchdog Timer
- JTAG/COP debugger interface
- Diagnostic/Status LED’s
- Built in Test/Diagnostic Firmware

Software:

- VxWorks
- Linux

Environment:

- Operating Temperature, Convection cooled -40 to 55°C
- Non Operating Temperature, -62 to 95°C

Physical Characteristics:

- 6U X 160mm
- 6U VME
- 1.1 lbs
- Power: +5V (7A), +12V (100mA) –12V (100mA)
- Power Dissipation: 21.3 Watts (typical)

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