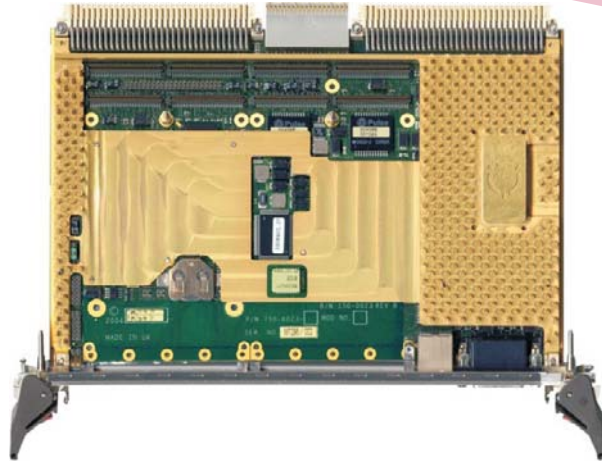


Intel® Pentium® M Processor Dual PMC Embedded Controller



APPLICATIONS

The VP 315/022-RA is a PC-compatible high performance, high functionality, ruggedized VME board supporting the Intel® Pentium® M Processor. This single slot board features 2 PMC sites, 1 Gbyte of soldered DDR ECC SDRAM and a variety of interfaces including Serial ATA150, EIDE, Gigabit Ethernet and USB. The VP 315/022-RA is a ruggedized air-cooled board,

designed for a range of demanding applications within the defense, industrial control, telecomms, telemetry, scientific and aerospace markets. To simplify the board's integration many popular industry standard operating systems are supported. The board is plug compatible with the VP 315/02x and VP 315/022-RC families.

HIGHLIGHTS

- Ruggedized dual PMC controller for VME systems:
 - air cooled
 - conformally coated
- Intel Pentium M Processor:
 - operating up to 1.6 GHz
 - 64 Kbytes L1 cache
 - 1 Mbyte L2 cache
- 1 Gbyte of 266 MHz DDR ECC SDRAM (soldered)
- High performance EIDE interface
- Serial ATA interface:
 - up to 150 Mbytes/s transfer rates
- 2 x PMC module interfaces (32/64-bit and 33/66 MHz):
 - expansion carrier provides 2 more PMC sites
- 2 x 10/100/1000 Mbps Ethernet interfaces:
 - Gigabit Ethernet for VME64x backplane (VITA 31.1)
- 64 Mbytes of Application Flash EPROM
- 512 Kbytes of BIOS Flash EPROM
- High resolution graphics interface
- Keyboard and mouse interfaces
- 3 x serial channel interfaces
- 2 x Universal Serial Bus (USB 2.0) interfaces
- Long duration timer, watchdog timer
- VME-64 interface supporting A32/A24/A16/D64/D32/D16/D8(E0), MBLT64 and with support for fast hardware byte-swapping
- Single slot
- Conduction cooled version available:
 - see VP 315/022-RC datasheet
- Non-ruggedized version available:
 - see VP 315/02x datasheet
 - rear plug compatible with the ruggedized versions
 - useful for bench development
 - use in commercial (non-rugged) applications
- Support for VxWorks®, Linux®, Windows NT®, Windows® 2000, Windows® XP Embedded, Windows® XP, RTX®, QNX®, Solaris™, LynxOS® and MS-DOS®

