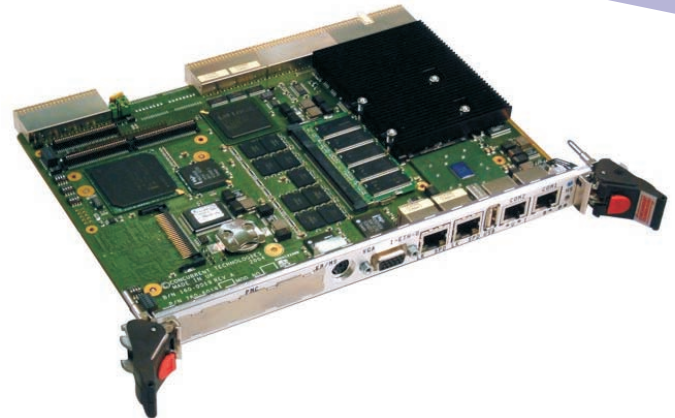


## Intel® Pentium® M Processor Slot Controller



### APPLICATIONS

The PP 302/02x is a PC-compatible high performance, high functionality one-slot CompactPCI® single board computer supporting either the 1.8 GHz Intel® Pentium® M processor 745 or the 1.4 GHz Intel® Pentium® M processor Low Voltage 738. Featuring a selection of memory options, an optional on-board hard disk drive or CompactFlash™ drive and a variety of interfaces, the board is suitable for a range of high-performance applications in industrial control, telecomms, telemetry, scientific and aerospace applications.

### HIGHLIGHTS

- 1.8 GHz or 1.4 GHz Intel Pentium M processor:
  - 64 Kbytes L1 cache
  - 2 Mbytes L2 cache
  - no CPU fan needed; low power processor
- 1.6 GHz processor version (1 Mbyte L2 cache) available; see PP 300/02x datasheet
- Single slot (for all option combinations)
- Up to 2 Gbytes of 333 MHz DDR DRAM (with ECC)
- High performance EIDE interfaces with optional on-board disk drive or CompactFlash™/Microdrive™ interface (in a single-slot)
- Two Serial ATA150 (SATA) channels
- Ultra-160 Wide SCSI interface
- Four 10/100/1000Mbps Ethernet interfaces
- Dual Gigabit Packet Switching Backplane (PICMG 2.16)
- PMC module interface (32/64-bit at 33/66 MHz)
- 1 Mbyte of BIOS Flash EPROM
- CompactPCI controller:
  - operates in system slot or peripheral slot
  - 32/64-bit at 33/66 MHz CompactPCI interface
- Option to bypass CompactPCI bus (Satellite Mode)
- IPMI (Intelligent Platform Management Interface):
  - PICMG 2.9 (System Management Specification)
- High resolution graphics interface
- PS/2 keyboard and mouse port
- 3 x USB 2.0 interfaces and 2 x RS232 serial channels
- Floppy disk interface; Watchdog timer
- Extended temperature version available:
  - -25°C to +70°C (E-Series)
  - -40°C to +85°C (K-Series, includes humidity sealant)
  - supporting 1.4 GHz processor
- Support for VxWorks®, Linux®, Windows NT®, Windows® 2000, Windows® XP, Windows® XP Embedded, Solaris™, LynxOS® and QNX®
- Optional Transition Module for rear panel I/O

Its functionality can be further increased through the use of PMC modules. It is fully compliant with PICMG® 2.16 (Packet Switching Backplane) specification. Additionally, very high-performance networking is provided by four Gigabit Ethernet links. To simplify the board's integration many popular industry standard operating systems are supported. Full system monitoring is provided by the PICMG 2.9 compliant IPMI interface. The board is rear plug compatible with the PP 300/02x family.

