

## Intel® Core™ 2 Duo Processor Dual PMC Carrier



### APPLICATIONS

The PP 432/05x is a PC-compatible high performance, high functionality, dual PMC CompactPCI® board supporting the Intel® Core™ 2 Duo processor and the Intel® 3100 server class chipset. The processor contains two CPU cores and a shared L2 cache. The PP 432/05x will operate in a system slot, a peripheral slot or independently from the CompactPCI bus. High performance networking is provided by four Gigabit Ethernet links, and the board is compliant to the

PICMG® 2.16 specification. Full system monitoring is provided by the PICMG 2.9 compliant IPMI interface. Many suitable industry standard operating systems are supported. The PP 432/05x provides an upgrade for most applications that are using the popular PP 332/02x and PP 330/02x boards. The PP 432/05x is suitable for a range of high performance applications within the industrial control, telecomms, telemetry, scientific and aerospace markets.

### HIGHLIGHTS

- 2.16 GHz or 1.5 GHz Intel Core Duo processor:
  - dual-core processor
  - 667 MHz Front Side Bus
  - 64 Kbytes L1 cache per core
  - 4 Mbytes L2 cache shared between cores
  - Intel® 64 Technology (64-bit computing support)
  - no CPU fan needed; low power processor
- Up to 4 Gbytes of single channel DDR2-400 ECC SDRAM
- 2 x PMC module interfaces, with front and rear user I/O:
  - 32-bit, 33MHz PCI and 32/64-bit, 33/66/100MHz PCI/PCI-X
  - 2 x XMC module interfaces (x1 PCI Express®)
- 4 x Serial ATA150 (SATA) channels, with options for:
  - on-board SATA disk drive
  - on-board CompactFlash™ or Hitachi GST MicroDrive™
  - on-board options fit in a single slot
- 4 x 10/100/1000Mbps Ethernet interfaces:
  - Dual Gigabit Packet Switching Backplane (PICMG 2.16)
- 4 x Universal Serial Bus (USB 2.0) interfaces:
  - 2 via front panel
  - up to 2 via rear I/O
- 2 x RS232 serial channel interfaces; either:
  - 1 via on-board header and 1 via rear I/O
  - or 2 via optional AD PP5/001-40U Rear Transition Module
- 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)
- Watchdog timer and Long Duration Timer
- Support for Linux®, Windows® 2000, Windows® XP, Windows® XP Embedded, Windows® Server 2003, QNX®, VxWorks® and Solaris™
- Single slot (for all option combinations)
- Extended temperature version available:
  - -25°C to +70°C (E-Series)
  - supporting 1.5 GHz processor
- Optional Rear Transition Modules

