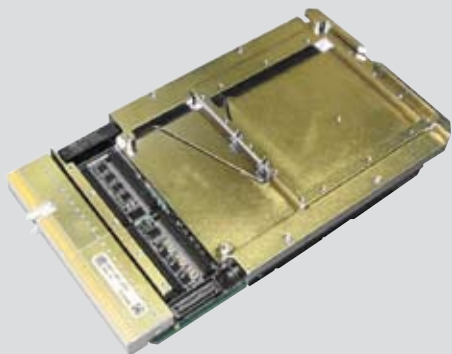




Single Board Computers

# DCP-1201P

## 3U CompactPCI Intel® Core™2 Duo Single Board Computer



- ◆ Intel® Core™2 Duo Processor:
  - 1.5GHz
  - Dual-core CPU
  - 4MB L2 Advanced Transfer Cache
- ◆ 1GB DDR2 SDRAM with ECC
- ◆ 1GB User Flash
- ◆ Two Gigabit Ethernet Ports
- ◆ Additional I/O includes:
  - 3x USB ports
  - 6x COM ports
  - 1x SATA ports
  - 4x GPIO lines
- ◆ One PMC site with 64-bit PCIx
- ◆ PICMG 2.3 Compliant
- ◆ Ruggedized, available as conduction-cooled
- ◆ Windows® XPe™, VxWorks® 6.x, Wind River® GPP Linux® 2.6, Lynx OS SE 5.0 and Solaris 10 BSPs

The DCP-1201P from Curtiss-Wright Controls is a high-performance 3U CompactPCI (cPCI) board built to meet the diverse needs of the evolving embedded community. Designed for space constrained applications, the DCP-1201P represents the latest technology in rugged low-power, highly integrated small form factor Single Board Computers (SBC). Intended to compliment the SCP/DCP-1201, the DCP-1201P is a peripheral only card with a PICMG 2.3 compatible pinout providing full 64-bits of PMC I/O on the P2.

Based on the Intel Core2 Duo with 1GB of ECC DDR2 SDRAM, the DCP-1201P provides high-speed processing while maintaining low power consumption. In addition, the DCP-1201P also offers an unparalleled complement of I/O capability in order to satisfy the most demanding application needs of harsh environments. For applications requiring ultra low power consumption, the DCP-1201P is available with a BIOS configuration setup capable of turning off one of the processing cores. With this BIOS configuration the DCP-1201P is driven by a single processor core running at 1.5GHz with decreased power consumption.

The challenge of high density computing is to pack the greatest functionality into the smallest standard form factor, while retaining as much flexibility as possible. In conjunction with its processing power, the DCP-1201P meets this challenge by offering a PMC site that allows developers to integrate PMCs directly onto the DCP-1201P. A rich complement of I/O is available on the DCP-1201P including 2GbE ports, one SATA port, two RS-232 ports, four RS-422 ports, four GPIO lines, and three Universal Serial Bus 2.0 (USB) ports.

### Learn More

Sales Info: [sales.cwembedded.com](mailto:sales.cwembedded.com)

Sales Email: [sales@cwembedded.com](mailto:sales@cwembedded.com)

**ABOVE & BEYOND**

*Please note:  
All hardware features  
may not be supported  
by all operating  
systems.  
Contact Curtiss-Wright  
for details and release  
schedules.*

**CURTISS  
WRIGHT** Controls  
Embedded Computing

[cwembedded.com](http://cwembedded.com)



## Features

- ◆ Intel® Core™2 Duo Processor @ 1.5GHz
- ◆ 1GB DDR2 SDRAM with ECC
- ◆ 1GB User Flash, appears as USB drive
- ◆ 4MB L2 Advanced Transfer Cache
- ◆ Intel Lindenhurst 7520 North Bridge
- ◆ Intel 6300ESB I/O Controller Hub (ICH)
- ◆ (2) 10/100/1000 Base Ethernet ports
- ◆ (3) USB 2.0 ports
- ◆ (6) COM ports (2-RS232, 4-RS422)
- ◆ (1) Serial ATA (SATA) ports
- ◆ (4) general purpose I/O (GPIO) lines
- ◆ Single slot, 3U board with one PMC site 64-bit/66MHz
- ◆ PICMG 2.3 Compatible
- ◆ Windows XPe, VxWorks 6.x, Wind River GPP Linux 2.6 OS, Lynx OS SE 5.0 and Solaris 10 BSPs
- ◆ Functions as peripheral processor

Figure 1: SVME/DMV-1201P Block Diagram

