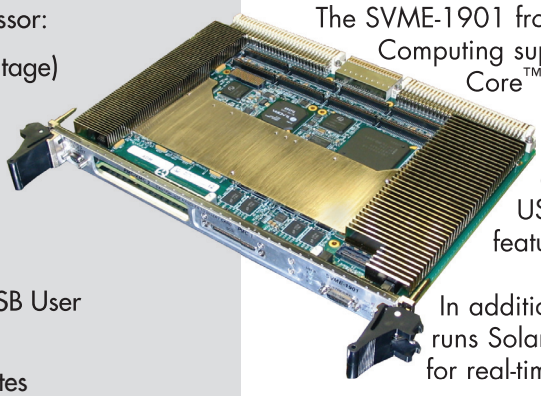
Fact Sheet

SVME/DMV-1901

6U VME Intel® Core™2 Duo Single Board Computer

- Intel® Core™2 Duo Processor:
  - 1.5GHz (ultra low voltage)
  - Dual-core CPU
  - 4MB L2 Advanced Transfer Cache
- Up to 4GB ECC DDR2 SDRAM
- 4GB or 8GB on-board USB User Flash
- (2) PCIx 133MHz PMC sites
- (1) 4-lane PCI Express® (PCIe) XMC site
- Optional ATI Radeon Graphics on-board with 8-lane PCIe, Dual Display
- 2GbE Ports
- Additional I/O includes:

  (3) USB ports, (5) COM ports, (2) SATA ports, AC97 Audio, (8) GPIO lines, (2) PS/2 ports
- Optional VME320 2eSST Interface
- Ruggedized, available as air- and conduction-cooled
- Windows® XPe, Wind River® Linux®, Solaris® 10, VxWorks® 6.x, or LynxOS® SE BSPs
  - Support for VxWorks® 6.x for real-time applications is now shipping
- Supports 2x RS-232 & 3x RS-422 ports



The SVME-1901 from Curtiss-Wright Controls Embedded Computing supports one Intel® Core™2 Processor. With a Core™2 Duo processor the SVME-1901 acts as a dual CPU 6U VME64x air-cooled board built to meet the diverse needs of the evolving embedded community. With the addition of a SATA, or USB hard drive, the SVME-1901 becomes a full-featured computing platform.

In addition to running Windows® XPe, the SVME-1901 runs Solaris® 10, Wind River® Linux® and VxWorks® 6.x for real-time operating systems.

The SVME-1901 is designed for both benign and rugged air-cooled systems. It has support for a clock calendar and NVRAM from a system supplied battery backup and/or on-board capacitor. A user programmable operating frequency allows dynamic, user controlled power consumption adjustment.

The SVME-1901 supports extensive I/O on the faceplate including Video and Graphics. Optional dual video displays are supported with rear I/O configurations.

The SVME-1901 is designed for embedded systems concerned with performance per watt. It also supports those users that desire the Windows® XPe operating system for legacy, driver, or development reasons.

The SVME-1901 is an ideal solution for those systems that require the Solaris® 10 operating system.

Learn More
Sales Info: sales.cwcembedded.com
Sales Email: sales@cwcembedded.com

ABOVE & BEYOND

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

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Fact Sheet

SVME/DMV-1901

Features

- Intel® Core™2 Duo Processor 1.5GHz
- 4MB L2 Advanced Transfer Cache
- Up to 4GB DDR2-400 SDRAM with ECC
- 4 or 8GB flash, appears as USB drive
- Intel® Lindenhurst 7520 North Bridge
- Intel® 6300ESB I/O Controller Hub (ICH)
- VME 320 2eSST Tempe Interface
- Single-slot, 6U board with (2) PCIx 133MHz PMC sites, (1) 4-lane PCIe XMC site
- Windows® XPe, Solaris® 10, VxWorks® 6.x, Wind River® Linux®, or LynxOS® SE
- Supports 2x RS-232 & 3x RS-422 ports

I/O Interfaces

- (2) 10/100/1000 Ethernet ports
- (3) USB 2.0 ports, (2) PS/2 ports
- (5) COM ports – (2x RS-232, 3x RS-422)
- (2) SATA ports
- (8) General Purpose I/O (GPIO)
- (2) Video Graphics Ports, (1) RGB, (1) DVI
- AC'97 Audio Port
- Power: <40W
- Air- or conduction-cooled
- SCSI320 support is available on select ruggedization levels
  - Please contact Curtiss-Wright Controls sales for details

Figure 1: SVME/DMV-1901 Block Diagram