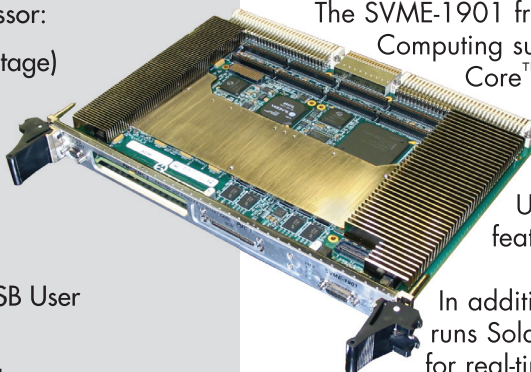


SVME/DMV-1901

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

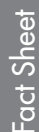
Sales Info: sales.cwembedded.com

Sales Email: 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.*

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WRIGHT Controls**
Embedded Computing
cwembedded.com



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

- ◆ (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

The diagram illustrates the system architecture for the Intel Atom D2700. At the top, the Intel Core2 Duo 1.5GHz processor is connected to the Intel E7520 North Bridge via a 667MHz bus. The North Bridge is connected to two 1-2GB DDR2 SDRAM modules at 400MHz. It also connects to the Intel 6300 ESB South Bridge via an Intel HUB Interface. The South Bridge manages various peripherals: 3x RS422, 3x USB, 2x RS-232, AUDIO, 8x GPIO, 2x SATA, VME Backplane, VITA Compliant PO, VITA Compliant P2, 1 or 2 GbE, and (Optional) RGB/DVI. It also interfaces with a 16Mb FWH, CPLD Functions, Super I/O, and an Audio CODEC. The South Bridge connects to an 8GB Flash via USB and an Optional Tundra Tempe VME320 via 66MHz PCIx. The North Bridge provides 8x PCIe lanes, with 4x going to Optional ATI Graphics and 4x going to the 82571 Ethernet controller. The Ethernet controller also connects to (Optional) Front GbE and (Optional) Front RGB. The system includes Front I/O with 1x USB, 2x RS-232, 1x GbE, 1x Reset, and 1x RGB. PCIe-PCI Bridges connect the North Bridge to the X/PMC and PMC controllers via 133MHz PCIx.