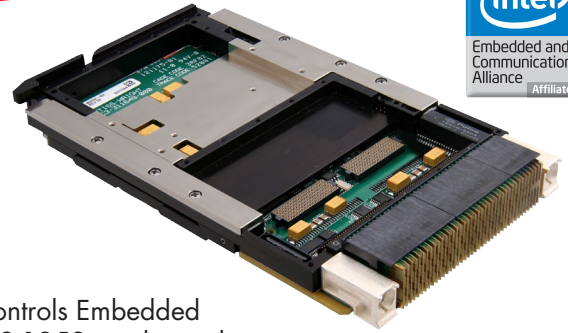


VPX3-1252

Intel® Core™2 Duo SP9300 Single Board Computer



- ◆ High-speed general purpose SBC with Intel Core2 Duo SP9300
- ◆ Intel Core2 Duo SP9300 with two cores running at 2.26 GHz
- ◆ Up to 8 GB DDR3 SRDAM
- ◆ Full compliment of I/O Capability (Ethernet, Serial, USB 2.0, PCI Express®, SATA and DIO)
- ◆ VPX format with two 4-lane PCIe fabric ports
- ◆ VxWorks® 6.x BSP, Driver Suite supporting Workbench® 2.x IDE, Windows® XPe, Curtiss-Wright Wind River® Linux® GPP LE and LynxOS®
- ◆ Continuum Software Architecture (CSA) firmware providing a comprehensive suite of system debug, exerciser, and update functions, BIT, and non-volatile memory sanitization function
- ◆ Designed for harsh-environment applications, both air- and conduction-cooled

Curtiss-Wright Controls Embedded Computing's VPX3-1252 combines the performance and the advanced I/O capabilities of the Intel Core2 Duo SP9300 processor and Intel GS45 Chipset with an extensive I/O complement, to provide a highly capable processing platform for a wide range of high-performance applications. Designed for space constrained applications, the VPX3-1252 represents the latest step in the evolution of rugged high-performance, highly integrated, small form factor single board computers (SBCs).

Available in a full range of environmental build grades, the VPX3-1252 is specifically designed to meet the challenges of rugged deployed high density computing. The VPX3-1252 packs the greatest functionality into the smallest standard form factor, draws the lowest possible power while retaining maximum flexibility, and offers an impressive complement of I/O capability to satisfy the most demanding harsh environment application needs.

The VPX3-1252 is designed to occupy a standard 0.8" slot and may be used for upgrading existing CompactPCI (cPCI) systems in the same footprint.

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.*

**CURTISS
WRIGHT** **Controls**
Embedded Computing
cwembedded.com



Features

Intel Core2 Duo SP9300 Processor

- ◆ 2.26 GHz
- ◆ 6 MB L2 Cache
- ◆ 1067 MHz FSB
- ◆ SSE4 floating point libraries

Memory

- ◆ up to 8 GB DDR3 SDRAM
- ◆ 4 GB NAND Flash
- ◆ 512 KB of NVRAM
- ◆ Memory bank DDR3 SDRAM up to 1066 MHz

Fabric Ports

- ◆ Two x4 lane PCIe fabric ports on the VPX P1 connector mapped as per VITA 46.2

I/O

- ◆ 2 GbE
- ◆ 2 RS-232
- ◆ 2 RS-422/485
- ◆ 3 USB 2.0
- ◆ 8 DIO
- ◆ 3 SATA

IPMI

- ◆ XMC site with 8 lanes of PCI
- IEEE 1386.1 Compliant

Operating System

- ◆ WindowsXPe
- ◆ VxWorks
- ◆ Linux
- ◆ LynxOS

Built-in Test

- ◆ BIT compliant with COTS Continuum features
- ◆ CBIT
- ◆ IBIT
- ◆ PBIT

BIOS provides user selectable power management features – processor frequency can be stepped to 2.2 GHz, 1.8 GHz, 1.4 GHz and 1.0 GHz

Ruggedization Levels

- ◆ Air-cooled
- ◆ Conduction-cooled
- ◆ Conduction-cooled VPX REDI LRM

Table 1: Power Dissipation at 85°C

Core Speed GHz	Single-core Watts	Dual-core Watts	Typ. Board Power (Dual-core) Watts
1.60	15.7	19.0	29.8
2.26	2.26	26.3	41.9

Figure 1: VPX3-1252 Block Diagram

