Rugged Embedded Computing Solutions

Engineering Excellence – Software

VersaLogic invests nearly 50% of its engineering resources to develop software that complements its high quality hardware.

For over forty years, VersaLogic has provided OEM engineers with solutions that include both hardware and software support. As engineers know, firmware, driver, and OS support are essential to operating any embedded system.

Milestones

VersaLogic's milestones include numerous software contributions including:

- Forth-based programing language
- ROM-based C language compiler
- Early CP/M and MS-DOS OS implementations
- Custom BIOS development
- C language support libraries for I/O cards
- Windows and VxWorks BSPs
- Partnership with Microsoft Embedded and Wind River
- Ready-to-run Linux packages
- APIs for Mini PCIe expansion boards
- VersaViewer real-time I/O testing tool

Ease of Use

VersaLogic's software engineering team's top priority is customer ease of use. New product development is complicated enough without having to deal with challenging OS issues. VersaLogic supports customer product development with software drivers, APIs, OS kernels, and compatibility testing for common operating systems such as Linux, Windows, QNX and VxWorks.

yocto · QNX Windows WIND AN INTEL COMPANY Linux ubuntu debian ANDROID

VERSALOGIC CORPORATION

Software Offerings

VersaLogic's current software offerings include:

- VersaViewer—a real-time software tool for embedded hardware bring-up, bench testing, and I/O verification and debugging.
- VersaAPI—a shared library of API calls for reading and controlling on-board devices on most VersaLogic products. VersaAPI calls are simple and consistent across all VersaLogic platforms, allowing customers to concentrate on actual application programming.
- BSPs and support packages for Windows 10, 8, 7, XP; Windows Embedded Std. 7, XPe and CE; Linux Debian, Ubuntu and Knoppix; VxWorks; and QNX Neutrino
- Custom embedded BIOS firmware. Simplifies system setup and gives programmers access to the functions and controls that they need such as display configuration and power management.
- Extensive documentation. Clear documentation speeds the development effort.

Embedded Linux

Linux is an open-source operating system that holds a significant place in embedded systems due to a lack of licensing fees, wide community support, and multiple vendor availability. VersaLogic supports Linux versions on most VersaLogic products.

- Optimized embedded Linux BSPs are developed and supported in-house
- Yocto compatible BSPs for Arm-based products
- Linux kernel and U-Boot downloads
- Full access rights—customers have the ability to modify and redistribute the source code

Experience That Counts

VersaLogic's Software Engineers average 20 years of software experience in the embedded computing space! Working both individually and as a group, they bring expertise to bear on issues that could otherwise stall or prevent release of customer products. When unusual requirements or OS issues occur, VersaLogic's software engineering team can step up to the plate with confidence to provide a solution.

Whether you need a product that can run a version of Linux, Windows, VxWorks, or Android, VersaLogic's software engineers can help. They have the engineering know-how to ensure the hardware you need will work with the OS you prefer.

Take the risk out of embedded computer purchasing.

Contact VersaLogic for assistance with your next project.

Headquartered in Tualatin, Oregon, VersaLogic Corp. provides US-based design, engineering and technical support.

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