


 WIND RIVER  
PARTNER

### Ordering Information

Model	Description
4996/4996A	Pentek VxWorks BSPs and Hardware Drivers

Contact Pentek for availability

The Models 4996/4996A VxWorks BSPs provide software developers with a complete library of hardware initialization, control and application functions for Pentek PowerPC®/Power Architecture® processor baseboards, VME/VXS, PMC/XMC, VIM, and cPCI boards and modules. Used in conjunction with Wind River's **Workbench**® software development environment, they speed application development by providing a high-level API for accessing all of the processor board's memory and communication resources, and control of the board's I/O interfaces and I/O modules.

Processor specific functions found in the baseboard BSPs include: cache, DMA, SDRAM, interrupt, serial port, and timer control. Some general board functions include: reading and writing to mezzanine board FIFOs, VME/VXS, PMC/XMC, cPCI, and VIM I/O control, interprocessor commu-

nication, programming DMA reads and writes, programming interrupts, using mailboxes, managing RS-232 and ethernet interfaces, and control of optional Fibre Channel interfaces.

The VxWorks BSPs are designed to reduce development time not only during the initial stages of software development, but any time new I/O hardware is added to the system. **Hardware Drivers**, each designed to control the specific hardware features of the I/O interface being used, are built with a consistent style and function naming convention. Similar parameters on different I/O modules have similar driver calls, thereby allowing immediate familiarity with new I/O hardware as it's added. This can greatly shorten the application development learning curve when a system is modified or expanded.