

# Support Software



# VxWorks® Libraries I/O Function Routines







The VxWorks software libraries provide a simple API to quickly integrate Acromag's I/O boards with your application program.

Supports any CPU target with quick modification API easily convertible for any operating system

## **Description**

#### IPSW-API-VXW

Support for Industry Pack modules and carriers

#### PMCSW-API-VXW

Support for XMC, PMC, PCI, and CompactPCI boards

#### APSW-API-VXW

Support for AcroPack® modules and carriers

## Application Programming Interface (API)

Acromag's software development tools greatly simplify the interface between the I/O boards and your software application program. VxWorks libraries are supplied as "C" source code. These libraries provide easy-to-use function routines that quickly integrate with your application. Function routines are ready for use "as-is," but they are also easily customized for your unique application.

This powerful program lets you fully exercise the libraries and your hardware before running the actual application. These diagnostics will save you hours troubleshooting and debugging your applications. You can set addresses, set up registers, read real-world inputs, or drive outputs. The demonstration program steps you through the exact functions that are called in your application.

### Target any CPU

Acromag provides direct support for VxWorks when using PowerPC, x86 and 68000 CPU boards. The VxWorks C Library includes support for x86 PCI, MV167 and MV2700 CPU boards. Each library contains detailed information on integrating with the CPU's Board Support Package (BSP). The libraries also include instructions for implementing this software with other manufacturer's CPU board BSPs. Use with Industry Pack carriers from third-party board vendors is also supported.

The IPSW-API-VXW library package offers support for Acromag carriers. Other carriers are compatible, but require some minor modifications. Acromag uses a very innovative modular programming technique. This allows new carrier files to be created without affecting any of the complex IP module files or interrupt service routines.

#### **User-Friendly Licensing**

Acromag's VxWorks software libraries are provided with a full site license. This allows anyone at your location to use this software without any additional charges. Additionally, no run-time license is required either.

The VxWorks software libraries include support for the full family of boards or modules, not just certain models. For example, the IPSW-API-VXW package includes support for all Acromag Industry Pack Modules and carriers.

# **Key Features & Benefits**

- Easy installation procedure
- Readme files with step-by-step instructions
- Quickly creates libraries for any IP carrier board (supports third-party vendors)
- Targeted support for Power PC, x86, and 68000 series CPUs
- Supports any CPU target with quick modification
- API easily convertible for any operating system
- Source code provided to ensure maximum flexibility in implementing your application
- Ability to verify operation of your Industry Pack modules and carriers with a demonstration program to ensure proper hardware operation before attaching your application

## **Ordering Information**

## IPSW-API-VXW

VxWorks software support package for Industry Pack products

#### PMCSW-API-VXW

VxWorks software support package for PMC, PCI, and CompactPCI products (supports all Acromag PMC modules and PCI or cPCI boards except IP carriers)

#### APSW-API-VXW

VxWorks software support package for AcroPack products



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