

# Software Overview



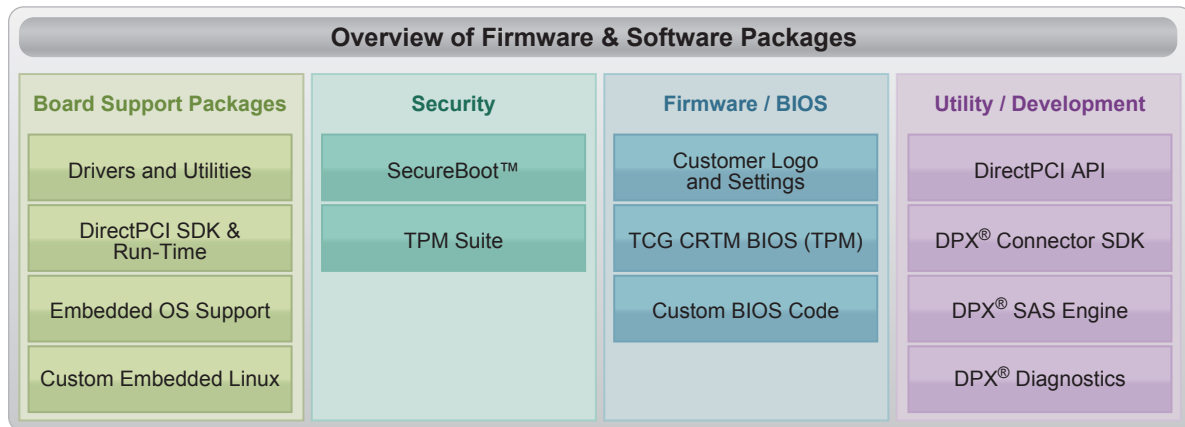
## Features

- Comprehensive high performance drivers and utilities for the DPX® Series platforms
- Peripheral libraries
- Security solutions
- Software products tailored to the needs of the gaming industry
- Reliable, field proven

## Introduction

Advantech-Innocode supplies a wide range of software packages and support to accelerate the customer's development cycle. As well as board support packages with highly robust drivers and edge-to-edge coverage for the hardware platforms, we offer a variety of other software products including peripheral protocol libraries, security suites and diagnostic and test software. This sheet provides an overview of the software products available. Please also consult the more detailed datasheets and the web site.

## Overview of Packages



### Board Support Packages

For each DPX® Series main-board a full set of drivers is supplied to match the standard PC components under Microsoft Windows® and Windows® Embedded. Under Linux, hardware support is verified against a range of Linux distributions and kernels, including:

Fedora Core 4, 5, 6 & 7  
 Debian 3.x  
 Ubuntu 5.10, 6.10, 7.04  
 Slackware 10.2, 11 & 12 (Custom kernel)

### DirectPCI SDK & Run-time

The DirectPCI SDK addresses the unique features of the DPX® Series main boards: SRAM, ROM, Digital I/O and intrusion detection and monitoring. The package includes:

Device drivers for Windows® and Linux  
 API libraries and header files with more than 100 functions  
 Example source code and demos  
 Components for Microsoft Windows® Embedded  
 Utilities for deployment and debugging

### TPM Suite (Trusted Platform Module)

A high level, security API solution and supporting software to utilise the capabilities of the Trusted Platform Module (TPM) chip on DPX® Series main boards. The hardware based security of the TPM provides the most robust security architecture. Capabilities include:

Ties customer software to customer hardware (to provide copy protection and license protection)

Software conforms to standards defined by Trusted Computing Group.

### DPX® SAS Engine

A full driver and API implementation ready for integration with a customer's game application. Features include:

Support for SAS version 6.02 and all previous versions

Accounting and metering

Multi-game support

Ticket In/Ticket Out (TITO)

Advanced Funds Transfer (AFT and EFT) facilities

Over 175 SAS Meters and 150 SAS Events defined

Real time events

### DPX® Connector SDK

A toolkit for connecting additional gaming hardware such as bill acceptors, coin hoppers etc. Plug-in oriented and user-extensible for integrating new and custom hardware support modules.

Device support regularly updated

Support includes: ID003, Cctalk, EBDS, Epic and Ithaca protocols among others

### DPX® Diagnostics

Advantech-Innocode's test management solution to address, design validation, software release verification and hardware production verification.

Plug-in oriented and user-extensible for integrating custom tests and Densitron standard tests.

Full coverage of all gaming-specific hardware included on Advantech-Innocode products including SRAM, ROM, Digital IO, extra COMs, Intrusion detection and logging processor.

### General Requirements

#### Development machine:

Windows® XP SP2 or Linux with 2.6 kernel

256MB RAM

Windows®: Visual Studio 6, Visual Studio 2003, Visual Studio 2005

Linux: GNU CC v3.3 or later + GNU libc v2.3.4 or later

### SecureBoot™

Low cost, light-weight security tool-kit. Features include:

Customer hardware runs only designated software

Assists with compliance against GLI-11 and other gaming regulatory standards

ROM extension for media hashing function verification

Flexible boot architecture

Support for Compact Flash, CD/DVD ROM.

### Embedded Support

A collection of componentised drivers for Microsoft Windows® Embedded users including:

Intel® chipset and extreme graphics drivers

AMD Radeon embedded graphics drivers

Realtek Ethernet and ALC655 AC97 codec

### Custom BIOS support

Customised BIOS are available for DPX® Series main boards. Modifications include:

Display your company's logo at bootup

Use specific BIOS default

Customised menus

Prevent users from changing BIOS settings

Restrict boot devices

Fast boot

Customer boot ROM extensions

### Common Package Contents

Most Advantech-Innocode software products provide the following features to allow for easy development and integration with the customer's game application:

Simple menu driven installation

SDK and run-time options bundled together

Sample source code with pre-compiled binaries

Libraries and header files for developers

Componentised software for Microsoft Windows® XP Embedded

Full, detailed documentation supplied in both online and printed form

### Target Machine:

DirectPCI Run-Time API

DPX® Series motherboard or system