

Phoenix SecureCore Technology™

Mobile Solutions



Phoenix SecureCore Technology™ (Phoenix SCT) is the next-generation UEFI BIOS firmware for cross-device, cross-codebase compatibility. The universal build system of Phoenix SecureCore Technology™ comes with native EDK II support and is compatible with EDK 1117, allowing system developers to use a single BIOS core across different silicon platforms and operating systems, saving customization and maintenance efforts while reducing time to market.

Phoenix SecureCore Technology™ Architecture

Based on the latest UEFI specification (2.3.1) and the Intel® Platform Innovation Framework for EFI PCI Platform Support specification (1.2), Phoenix SCT has an industry-leading architecture that provides a multi-layered operating environment. The value of one-to-one mapping of the SDK architecture contributes to modularization and results in customization that is both easy and efficient.

The advantage of the Phoenix SCT modular tree structure has itself turned into a competitive advantage for OEM/ODM partners. Phoenix SCT's proven scalability and reliability not only improves deployment efficiency, but also increases engineering productivity.

EDK II Transition Benefits

Industry Standards Compliance

- > UEFI 2.0–2.3.1; PI 1.0–1.2

Extensible Foundation for Advanced Capabilities

- > Pre-OS Security
- > Rich Networking
- > Manageability

Support for UEFI Packages

- > Import/Export Modules for Source and Binaries

Maximize Source Code Reuse

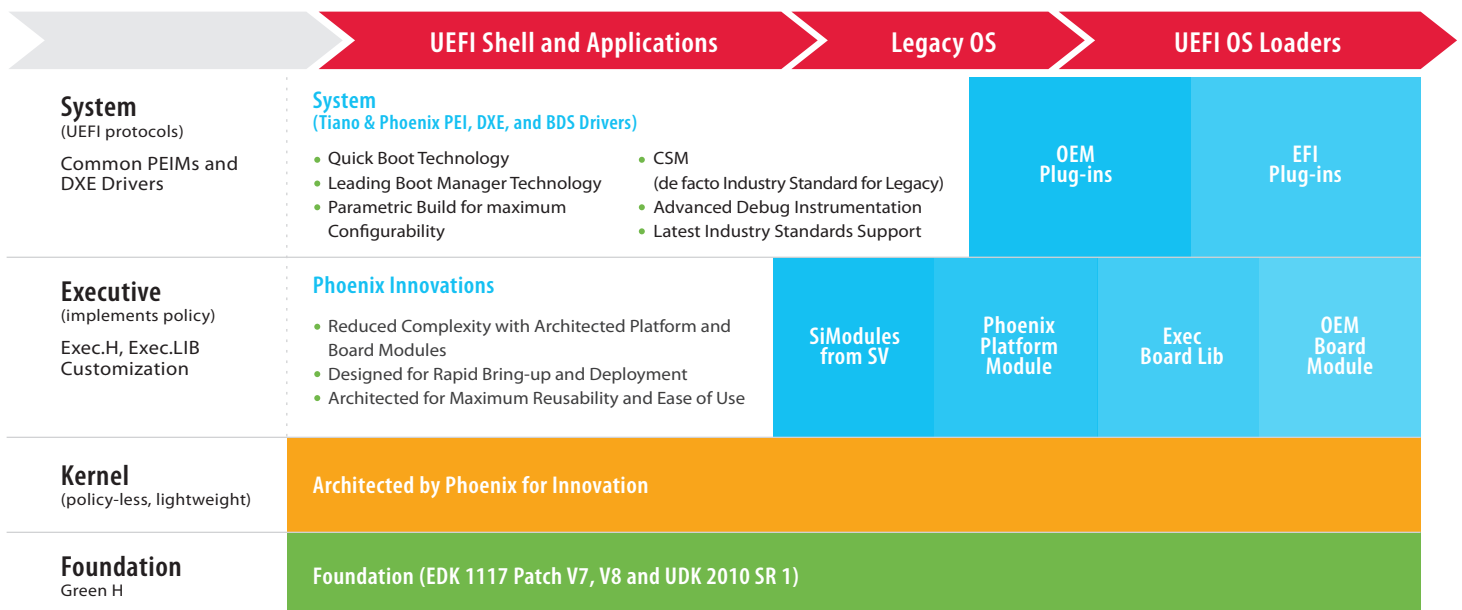
- > Platform Configuration Database (PCD) to Provide “Knobs” for Binaries
- > ECP Provides for Reuse of EDK1117 (EDK I) Modules
- > Improved Modularity, Library Classes and Instances
- > Optimized for Size or Speed

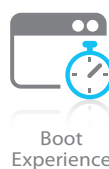
Multiple Development Environments and Tool Chains

- > Windows, Linux
- > VS2008, VS2010, WinDDK, Intel, GCC

Fast and Flexible Build Infrastructure

- > 4x+ Build Performance Improvement (vs. EDK I)
- > Targeted Module Build Flexibility





Fully compliant with the latest industry specifications and the advanced UEFI features of Microsoft® Windows® 8, Phoenix SecureCore Technology™ is the most technologically advanced UEFI BIOS firmware to date, offering a high-performance, robust architecture that achieves shorter boot times, greater reliability, and easy customization.

The universal build system and advanced functionality enabled by the latest specifications fused with the innovative features created by Phoenix brings tremendous benefits to OEM/ODM partners seeking BIOS scalability and reusability.

▶ Universal Build System

- ▶ Phoenix SCT supports EDK 1117 v7, v8, and UDK 2010 SR1 build systems for cross-platform compatibility.

▶ Connected Standby Ready

- ▶ Phoenix SCT is Windows 8 Connected Standby ready with ACPI 5.0 and TPM 2.0 support for secured and fast responsiveness.

▶ Boot Performance Optimization

- ▶ Phoenix SCT applies Static Core Root of Trust for Measurement (S-CRTM) that significantly improves boot performance with TPM modules.

▶ Touch Optimized Design

- ▶ Phoenix SCT provides a seamless Windows 8-style GUI BIOS setup and programmable touch hot zone to devices without a keyboard, or mouse.

▶ Non-Volatile Capsule

- ▶ Phoenix SCT allows Capsule to be stored in the disk GPT partition, rather than in flash RAM, for native restart support.

▶ Sure Boot

- ▶ Phoenix SCT has Sure Boot as a variable-less, auto-loading default service to force crisis recovery upon boot failure.

▶ Safe Recovery BIOS²

- ▶ Phoenix SCT holds a redundant BIOS image in the same flash ROM which can be triggered upon boot failure with no additional media required.

▶ PURE Technology

- ▶ Phoenix SCT comes with Phoenix UEFI Runtime Environment (PURE) for API to communicate with the OS on SMI/SMM-less platforms through runtime variables.

Why

E L T A N

Professional Design support for your system solutions
Experienced European Development team

- ✓ Superior UEFI BIOS engineering
- ✓ Direct engineering contacts for fast support and ensure you go to market
- ✓ Hundreds of embedded systems projects completed
- ✓ Hardware and Embedded Controller Design
- ✓ Device Driver and Operating System Experts
- ✓ Quality, Reliability, Extended lifetime support
- ✓ Co-operating with Intel, AMD and other Silicon Vendors



Phoenix Technologies Authorized Distributor

E L T A N

ELTAN B.V.
 Ambachtstraat 23, 5481 SM Schijndel
 The Netherlands
Tel +31 (0)73-5944660
Fax +31 (0)73-5941187
E-mail Info@eltan.com
Website www.Eltan.com