

Phoenix TrustedCore™ Server & Embedded Server

Core System Software for a World of Seamless Computing



Security and native device authentication for servers and embedded servers

The digital world is connected today as never before. But with growing threats and increasingly complex interconnected computing assets, organizations of all sizes must have the tools to easily manage and secure computers, applications and data on the network. Only Phoenix TrustedCore provides a complete product suite for the manufacturer, OEM and system builder spanning computer firmware, development tools and managed applications designed for the future. Phoenix products are modular, easy to deploy and easy to use — while protecting operating systems, applications, critical data, and even themselves from threats.

Phoenix TrustedCore is for trusted network computing. Phoenix TrustedCore Server and Embedded Server goes far beyond traditional BIOS to provide the features necessary to manage and secure today's servers. It is the only core system software solution with built-in protection against malicious attacks and accidental damage to the factory-installed system software image.

Phoenix TrustedCore Server and Embedded Server are optimized for the volume server market. When it is combined with Phoenix TrustConnector™, organizations have a security kernel in firmware capable of protecting the core system software, managed application environment, Windows, Windows applications, and Linux.

Phoenix TrustedCore Server and Embedded Server provides the most extensive server management capability in the industry, supporting the latest Intelligent Platform Management Interface (IPMI) standards. It also provides Phoenix IPMI enhancements that go beyond the standards to provide extensive system information as well as control of the server network address, ideal for managed server environments and applications such as load balancing and provisioning. Out-of-band remote console capability is provided through IPMI LAN, IPMI serial and serial RS-232 interfaces.

Available as a perfect compliment to TrustedCore, Phoenix CoreArchitect is the most advanced graphical design tool for core system software. Built on Microsoft Visual Studio .NET, Phoenix CoreArchitect provides a visual development environment that reduces deployment time and improves software quality.

This new software solution includes support for a protected application area, designed for storage of server management and recovery applications. In combination with the built-in security kernel, the environment is protected from malicious attack or accidental damage. Phoenix TrustedCore Server and Embedded Server supports authentication of both Phoenix FirstWare and certified partner applications, enabling Phoenix manufacturing, OEM and system builder partners to deliver a complete and secure execution environment for built-in utilities and applications.

Key benefits for manufacturers, OEMs and system builders

Differentiate and increase product visibility — Build desirable customized server systems that exceed customer expectations for security and management. The quality and flexibility of Phoenix technology helps our partners lead the market with meaningful, value-added products that are inherently secure.

Increase revenues — Develop and sell more secure, reliable products, and take those products to market faster with more inherent value than competing products. Phoenix TrustedCore Server supports a broad range of the most popular silicon, and it works with the advanced design tool, Phoenix CoreArchitect to help speed your time to market.

Reduce costs — With extensive remote management capability as well as secure Phoenix FirstWare and certified cME partner applications, Phoenix delivers customer convenience and reduced support and manufacturing costs.

Phoenix TrustedCore™ Server & Embedded Server

A complete product suite

Core System Software

Phoenix TrustedCore Server and Embedded Server — It is the premier core system software solution for industry standard servers, delivering a complete core feature set complemented with unique enhanced security and management capabilities.

Development Tools

Phoenix CoreArchitect — This is an advanced core system software graphical design and development tool built on the Microsoft Visual Studio .NET environment.

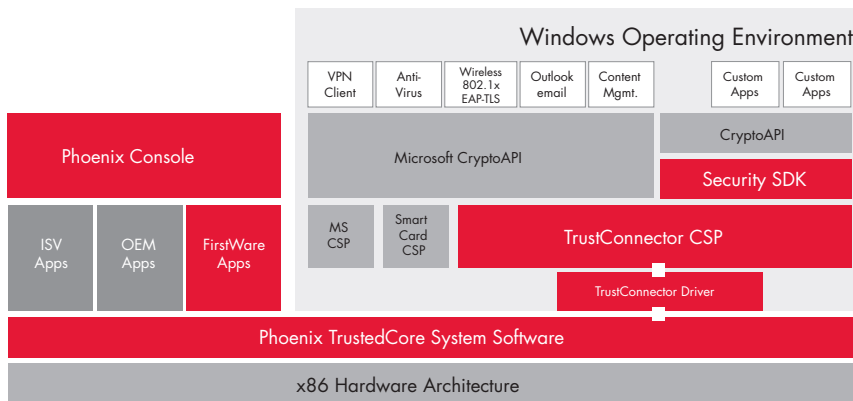
Phoenix IPMI Enhancements API — It enables network management applications to use enhanced device management features of TrustedCore Server and Embedded Server, including extensive system information and network IP address control.

Security API and Software Developer Kit (SDK) — This makes it possible to build utilities and applications using the security framework built into Phoenix TrustedCore Server and Embedded Server.

Value-add Extensions

Phoenix TrustConnector — It integrates Phoenix TrustedCore capabilities with the Windows CryptoAPI, enabling organizations to integrate applications, credentials and data with the security features of the managed servers.

Phoenix FirstWare and Certified Partner Applications — They deliver value-added management and recovery tools. You may submit your own tools for certification.



Extensive server management features work together with public key security features. Phoenix TrustedCore and Phoenix TrustConnector are optimized to work together, storing critical user information safely at the core of the device.

For the latest technical specifications visit us at www.phoenix.com

Phoenix @ the Core

Phoenix Technologies develops a complete product suite of Core System Software, tools and applications to deliver trusted, seamless computing to digital devices for an Internet-connected world. Phoenix Technologies helped launch the PC industry over 25 years ago. Today we are extending our leadership and knowledge at the core of machines, beyond the PC to a wide range of platforms and devices.

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Summary

Unique to TrustedCore

- EFI 1.1 Compliant
- TCG 1.2 Compliant
- Phoenix StrongROM 3.0
- TrustedCore public key crypto engine
- Phoenix TrustConnector
- Phoenix cME application environment
- USB UMB elimination
- PCI OPROM optimization
- PCI memory space optimization
- CoreArchitect 2.0 support with drag and drop feature and automatic code creation

Management

- IPMI 1.5/2.0 support
- Phoenix IPMI enhancements
- Phoenix management application
- Console redirection via IPMI LAN, IPMI serial, or serial port
- One-to-many CMOS update via PXE LAN boot

CPU and Memory

- Support for up to 255 processors
- Support for more than 16GB RAM
- Supports the latest 64-bit extension technologies
- ECC memory error detection at POST and runtime
- Bad DIMM disabling
- Detailed error logging

Boot Options

- Phoenix Remote Multiboot XP
- Phoenix Multiboot XP (local boot)

PCI

- PCI-Express & PCI-X
- PCI Hot Plug
- 64-bit PCI

Deployment

- Flash utilities for Windows and Linux
- Designed for 8MB (1024K) or larger Flash ROM

Operating Systems

- Tested with Microsoft Windows XP Professional, Windows Server 2003 (32 and 64 bit), Windows

