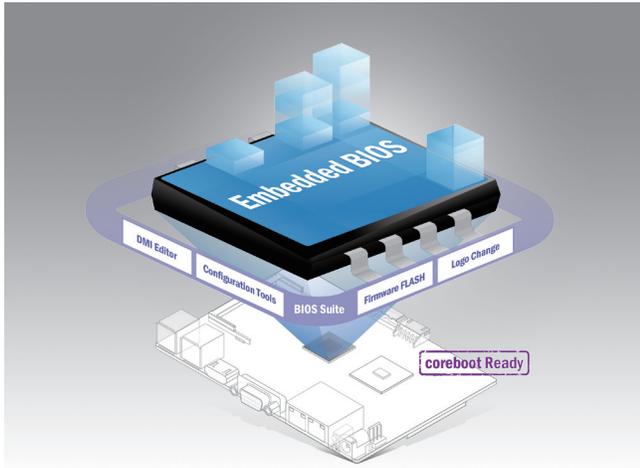# Embedded BIOS

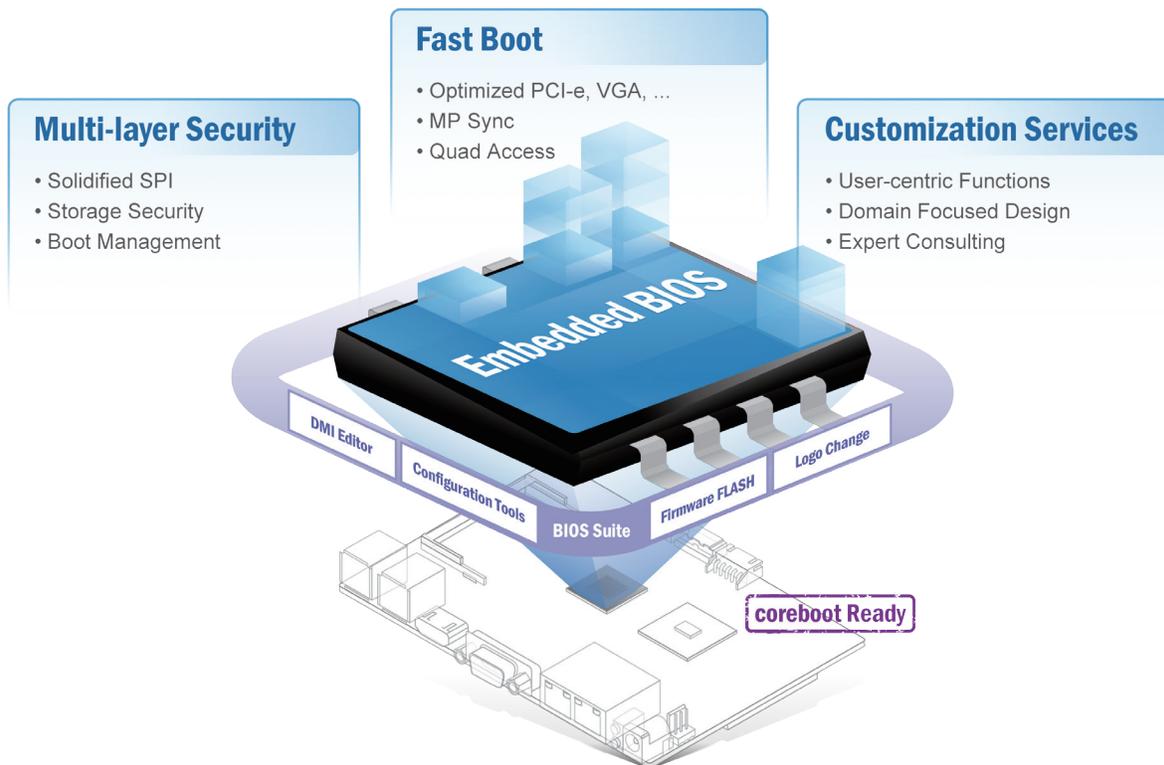## Fast Boot, Multi-layered Security and Customization Services

Features

- Deliver superior performance in compatibility and functionality
- Boot times are less than 2 seconds
- Solidified SPI with a 100% reproducible BIOS image and SPI write protect
- Storage security with data encryption
- Boot management protects against malware and uncertified devices in the pre-OS environment
- BIOS Suite for customers to easily change logo, install DMI information, adjust BIOS settings, and update the firmware in different OSs

Introduction

Advantech provides full-featured Embedded BIOS solutions that deliver the superior performance compatibility and functionality that System Integrators need. A variety of options and extensions let customers tailor their products to a wide range of target markets, with coreboot ready for practical usage. Secure boot options are optimized to make sure POST period before Operation System takeover is secured. Furthermore, it includes a BIOS suite for building custom firmware tools for multiple OSs, such as DMI, BIOS configurations, and modules.

Multi-layer Security
- Solidified SPI
- Storage Security
- Boot Management

Fast Boot
- Optimized PCI-e, VGA, ...
- MP Sync
- Quad Access

Customization Services
- User-centric Functions
- Domain Focused Design
- Expert Consulting

Service Highlights

Multi-Layer Security

Provided are three levels of security, including solidified SPI, storage security, and boot management to protect from viruses, malware, and uncertified devices in the pre-OS environment.

Fast Boot

We continue to work with ISV, to provide Fast Boot solutions with optimized PCI-e, VGA, etc., meeting 1.5 seconds boot time, especially in certain military, medical products.

Customization Services

Featured are modularized designs and customizable mechanisms that speed up system development and make customization easy. Proven quality, rapid execution, and Industry-leading experience are the hallmarks of our consulting service.