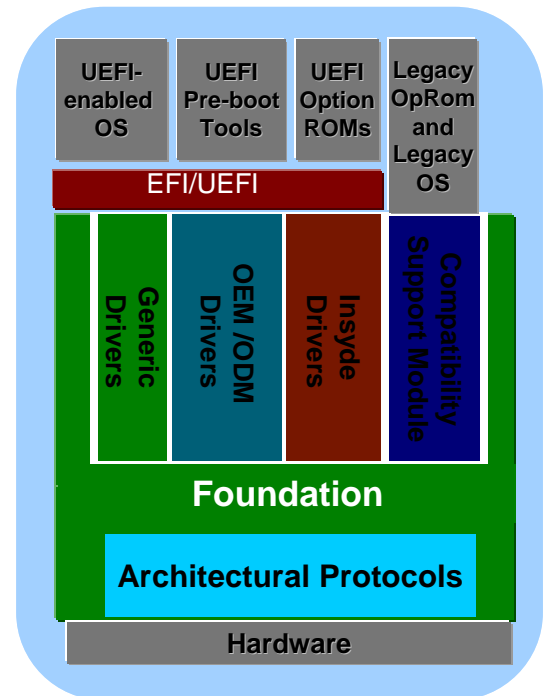


## InsydeH2O™

### UEFI Framework Firmware

#### ■ Key Features

- Most widely used third party UEFI BIOS in production
- All popular platforms supported
- Compatible with all legacy and UEFI operating systems
- InsydeFlash and other utilities
- Optional H2ODDT Debugger
- Wide range of advanced technologies supported



The InsydeH2O™ product family is architecture-independent system software that uses the latest in BIOS technologies for an industry-standard, modern interface between operating systems and desktop, mobile, server and embedded platform firmware. InsydeH2O integrates UEFI (Unified Extensible Firmware Interface) specifications and the Intel® Platform Innovation Framework for EFI (The Framework) to provide a seamless “Hardware-2-OS” (H2O) interface.

Through InsydeH2O’s Compatibility Support Module (CSM), backward compatibility to legacy operating systems is provided allowing the continued use of standard operating systems and tools while making a gradual transition to UEFI. InsydeH2O allows modules to be simply interchanged and is also written in easy-to-use C language. All of this enables platform design innovation and speeds time-to-market.

InsydeFlash is a powerful and intelligent tool for updating and maintaining the computer system BIOS under various Windows environments. Boot Block protection performs backups of current system BIOS before updating, verifies system BIOS reliability, and automatically detects hardware compatibility for enhanced security.

System debugging is dramatically improved with H2ODDT™, Insyde Software’s unique software diagnostic debugging tool. Because it functions like an in-circuit emulation H2ODDT reduces the need for additional costly lab equipment. H2ODDT enables source-level debugging very early in the PEI stage, before memory sizing occurs. Its powerful breakpoint capability allows greater flexibility in setting and removing breakpoints before and during module loads as well as in System Management (SMM) mode. Developers can view traces simultaneously in both C and 64-bit assembly language.



## InsydeH2O Mobile Highlights

Most mature UEFI Solution  
All common features supported  
Legacy OS and Option Rom Support  
Legacy Free Support  
Full TPM support  
Intel AMT  
Turbo Memory  
EZH2O  
Embedded Controller interface  
Virtualization support  
Crisis Recovery  
Optional H2ODDT debugger  
USB 3.0 Support

## InsydeH2O Mobile Core Features\*

### UEFI:

UEFI 2.x  
UEFI run-time services

### Compatibility Support Module (CSM):

CSM16  
SMM  
Legacy USB 2.0  
BIOS Interrupts  
Legacy Option ROMs  
Fixed BIOS entry points  
Fixed CMOS locations  
BDA and EBDA  
BIOS Boot Specification  
IRQ routing

### Memory Support:

Memory initialization  
Memory discovery via SPD  
Supports 4 & 16 GB memory  
Supports TSEG  
ME/HECI init/MRC init  
Turbo Memory

### Management Functions:

SMBIOS v2.6 Support

### Power Management Support\*:

ACPI v2.0 & v3.0b & ACPI4.0 support  
Wake on LAN, USB activity, PME, RTC, SMBUS  
S-state support  
C-state support

### Processor Support:

Multi-processor ACPI table  
Microcode Update (INT15)  
Intel VT  
  
AMD-V  
APIC support

### Crisis Recovery:

Detect cause of crisis recovery (CR)  
Recover from Device (RC)

### Operating System Support:

EFI Shell  
Windows XP Professional (32 & 64-bit)  
Windows Vista (32 & 64-bit)  
Various Linux distributions  
Windows 7 (32 & 64-bit)

### Tools:

UEFI Flash utility (x86)  
Flash utility for DOS and Windows  
Optional debugger (H2ODDT)

### Working with Insyde

Our development and business models are flexible so you'll always find a working relationship that fits your style.

### Flexible Development Model:

- Turn Key
- Blended – Shared resources/project
- Point solutions:
  - ❖ On-Site board bring up
  - ❖ Specific drivers
  - ❖ Special functions

### Flexible Business Model:

- Range of options

\* Features may differ according to platform.



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