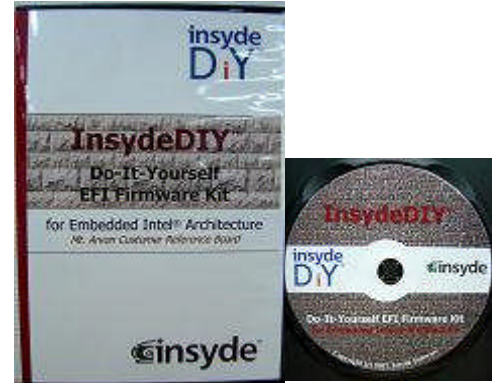


InsydeDiY™

Do-It-Yourself Firmware for Embedded Intel® Architecture

■ Key Features

- Facilitates in-house development of EFI Firmware
- Lightweight, easy to implement, and cost effective
- Reduces overall project development times
- Built-in software debugger
- Seamless transition path to full InsydeH20 Framework solution



insyde DiY™

The InsydeDiY is aimed specifically at embedded system makers who are using Embedded Intel® architecture processors who do not need a complete BIOS implementation, and who want to develop a platform-specific set of initialization and boot code themselves.

Designed as lightweight and easy-to-implement set of firmware components that deliver unique value and benefits to embedded developers and solutions providers, the InsydeDiY solution provides multiple benefits: reduced project development time with pre-packaged set of source and binary components, compatibility with the industry's latest EFI methods of booting an Operating System, improved boot speed, and a robust environment for running and managing pre-boot applications.

Primary components of the *InsydeDiY* Kit:

- CPU and Chipset Initialization Source Code
- H2ODDT™ Built-in Software Debugger
- Network Driver Support
- USB Mass Storage Device Support
- EFI 1.1 Support
- SMM Drivers
- Documentation and Reference Guides
- Technical Support

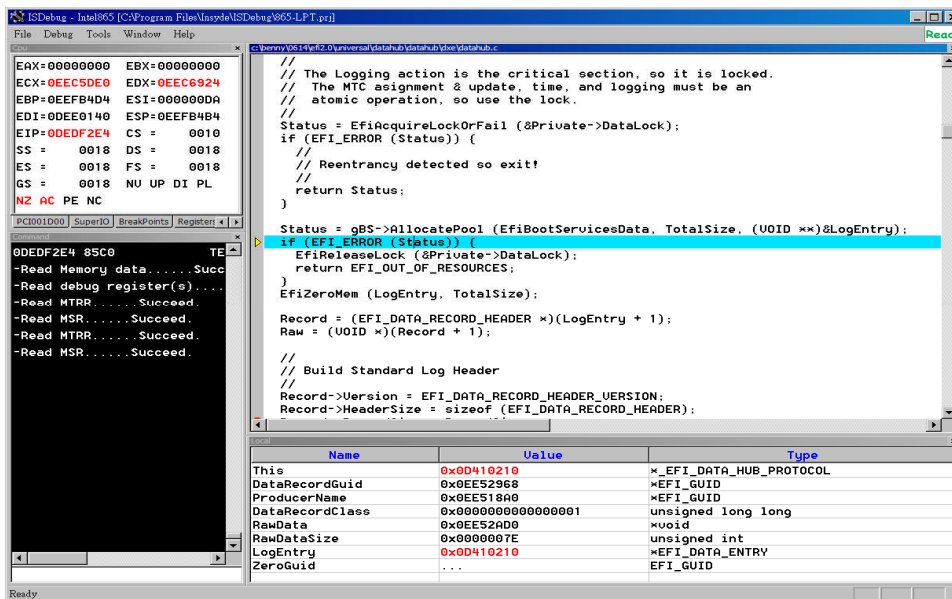
Seamless Migration to InsydeH₂O™

For customers that license InsydeDIY and find that their firmware requirements may grow beyond the scope of the product, Insyde Software offers a seamless and cost-effective transition path to InsydeH₂O™, our industry leading UEFI Framework product. This product line is the first system software that provides the “Hardware-2-OS” bridge using modern software architecture, designed to have a useful life over the next 20 years.

Unlike traditional 16-bit real mode BIOS technology, InsydeH₂O BRD (BIOS Replacement Drivers) runs in 32-bit flat mode. Despite the redesigned firmware architecture, the InsydeH₂O CSM (Compatibility Support Module) still provides all the necessary backwards compatibility including the run-time BIOS interface, support for option ROMs and USB legacy features.

Based on the Intel Platform Innovation Framework for EFI this product line is CPU and chipset technology neutral, allowing PC makers to select the most appropriate hardware components to meet their market requirements. Because the sources are hardware technology neutral, the same source code can be used to develop and then deploy across different segments from notebooks to desktops to servers, including those with different instruction sets and silicon components.

H2ODDT™ Debugger



The screenshot shows the H2ODDT debugger interface. On the left, a window displays CPU registers: EAX=00000000, ECX=0EEC5DE0, EBP=0EEFB4D4, EDI=0DEE0140, EIP=0EDF2E4, SS=0018, ES=0018, GS=0018. Below this, a list of memory reads is shown as successful. The main window displays assembly code with comments in Chinese, including 'The Logging action is the critical section, so it is locked.' and 'Reentrancy detected so exit!'. A variable table at the bottom lists fields like DataRecordGuid, ProducerName, and LogEntry with their respective values and types.



InsydeDIY and InsydeH₂O include the powerful diagnostic and debugging tool, H2ODDT, which provides an early stage debugging capability, a stable connection, flexible debugging methods, and an easy user interface.



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Insyde Software Corp. – Taiwan
6F, No. 137, Chien Kuo N. Rd. Sec. 2, Taipei, Taiwan
Tel: +886-2-2506-1289 Fax: +886-2-2506-3001
Insyde Software, Inc. – Boston
1400 Computer Dr., Westborough, MA 01581 U.S.A.
Tel: (508)599-3999 Fax: (508)599-3990
Insyde Software, Inc. --Portland
15220 NW Greenbrier Pkwy., Beaverton, OR 97006 U.S.A
Tel: (971)327-8504 Fax: (971)327-8543