

AMIDiag™ for UEFI

Diagnostic and Burn-in Solution

Extensive UEFI Testing

- The only true hardware diagnostics for UEFI
- Supports Aptio® and Tiano
- Supports legacy BIOS with EDK DUET (IA32 or x64) image

Comprehensive System Testing for Computer Manufacturing

Reduce Returns and Enhance Customer Satisfaction

- Comprehensive Diagnostics
- Support for IA32 and x64
- Supports the latest CPUs from Intel and AMD
- Platform customization with protected execution
- Execute from central manufacturing repository
- ROM capable; can be added directly to BIOS

Benefits Multiple Users

Completes BIOS & PC technology programming skills

- Computer Manufacturers
- Design Engineers
- Technical Support Personnel
- Repair Technicians
- End Users

Simple to Use

- Runs batch and script files
- Saves script files
- Single key identifies a group of tests, such as Memory or USB

Optional SDK for Easy Development of Custom Test Plug-ins

The Only Native UEFI Diagnostics

AMIDiag for UEFI is the only comprehensive diagnostic program for UEFI that does not require any dependence on legacy BIOS. It supports testing in Aptio or Tiano environments, as well as legacy BIOS environments with EDK DUET support. AMIDiag for UEFI performs all diagnostics directly on the hardware, without the interference of device drivers or interfaces that may alter or hide certain hardware, to give more reliable and secure test results.

AMIDiag for UEFI provides comprehensive hardware testing for manufacturing with a familiar user interface, and supports UEFI-compliant AMI and third-party hardware drivers for device-specific testing. AMIDiag for UEFI also has the ability to be embedded directly into the BIOS ROM - which can add value and increased functionality to the BIOS. This means that it can be launched directly from ROM rather than from mass storage devices, leading to improved execution speed, which is particularly useful in burn-in testing.

A Comprehensive Set of Diagnostic Tests

AMIDiag provides comprehensive testing for all system components, including:

- System CPU and Memory (including multiple processors)
- Hard Disk and Mass Storage Devices
- CD/DVD and other peripherals
- Keyboard, Video and Mouse
- Network Interface
- Standard protocols such as SCSI, PCI, USB and ACPI

Flexible Usage Options

AMIDiag is a powerful diagnostic tool for manufacturing that can be used quite flexibly to automate the testing process, or burn-in. All errors can be logged and analyzed. The user can specify a variety of execution options.

AMIDiag for UEFI has scripting capability and can be utilized in batch mode for cycles of repeated testing to implement robust burn-in quality procedures. The program can be run continuously, for a predetermined number of passes or for a predetermined amount of time.

The user can specify the ordering of test execution, set a wait on error option that requires user intervention before proceeding, or set an order to stop on error. An interactive flag can be set. Abbreviated versions of the tests can be run in Quick Test Mode, which allows complete system testing in shorter time.

AMIDiag for UEFI SDK

AMIDiag for UEFI architecture allows adding new tests to the diagnostics already available. The SDK contains all the necessary files and documentation that a software engineer, unaware of AMIDiag and its structure, will need to add a test plugin to AMIDiag for UEFI.

Developers will easily develop new tests or turn an existing custom test into an AMIDiag diagnostic module plug-in and configure AMIDiag to take into account the new module. These added tests have the same privileges as just any other, in terms of interaction with the main module, user interface, logging or execution.

