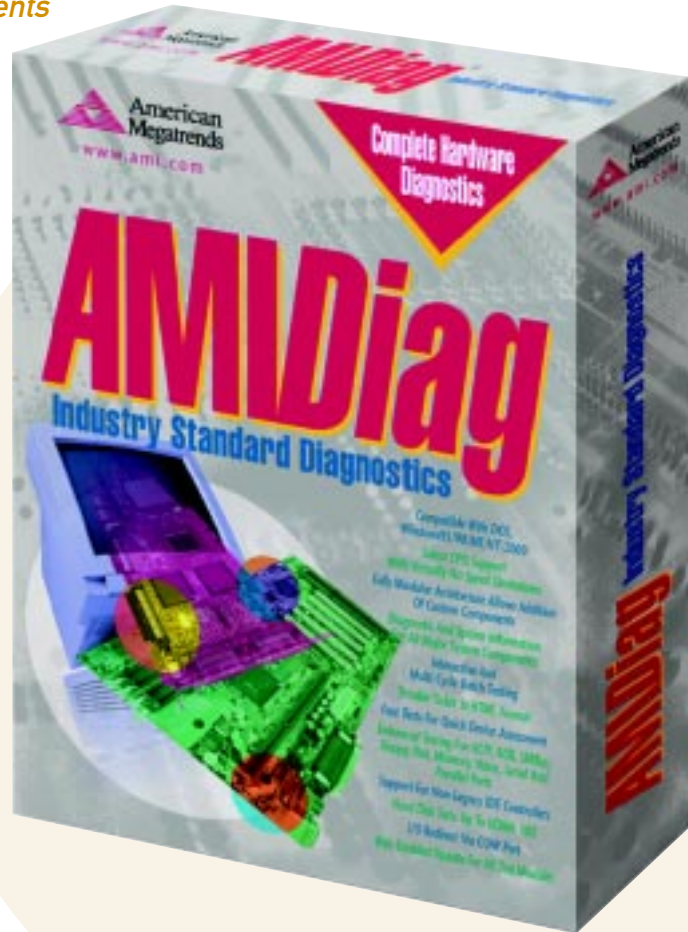


AMIDiag® Suite

*Diagnostic Software for the DOS (version 6.11) and
Windows Environments*



*AMIDiag Suite Offers Advanced
Diagnostic Capabilities for Both the
DOS and Windows Environments*

Advanced Features

- Compatible with Windows 95/98/ME/NT/2000
- System Information for Major Components
- Diagnostics for Major Components
- Interactive Diagnostics
- Trouble Ticket in HTML Format
- Modules Based on ATL/COM
- Customizable Components with Documentation
- Add Third Party Diag/Information Modules
- Compatible with DOS, Windows 95/98/ME
- Latest CPU Support Including Intel, AMD and Cyrix with virtually no speed limitations
- Update Support for all Test Modules
- Support for non-legacy IDE: HDU, CD, DVD, ATAPI
- Hard Disk Tests for up to UDMA 100
- ACPI Tests
- USB Mass Storage Device Support
- Enhanced Memory Tests Including SDRAM (SPD)
- Enhanced Floppy Disk Diagnostic
- Enhanced SMBUS Tests
- Support for Built-in Video and Audio in Intel 810/815
- Multiple Ethernet Support
- Fast Tests for Several Devices
- Easy Installation Procedure

 American
Megatrends

AMIDiag for Windows

Operating Systems

Windows[®] 95/98/ME
Windows[®] NT/2000

COM Controls

Easily Insertable and Removeable COM Controls
All System Information Implemented as COM Controls
All Diagnostics Implemented as COM Controls
COM Controls Designed to Allow Insertion of Management Layer Between Console Plug In and Core Control

Connectivity

Local Only

Inventory Information

Memory Controller & Devices
Physical Drives
Logical Drives
BIOS
Video Adapter
Parallel Ports
Serial Ports
Modem
Network Adapter & Protocols
Device Drivers
CDROM
Floppy Drives
Keyboard
Mouse
OS Information

Diagnostics

Detailed Diagnostics for Subsystems
Multi-Level Diagnostics - Basic and Extended
Progress and Status Notification
Diagnostics for Human Interface Devices
- Keyboard, Mouse, Video, Audio

Diagnostics Modules Included

CDROM
- Sequential Read Test
- Random Read Test
Processor
- CPU Register Test
- CPU Stack Test
- CPU Instructions Test
- CPU Bit Set Test
- FPU Control Word Test
Floppy
- Random Read Test
- Random Seek Test
- Sequential Read Test
- Sequential Seek Test
Hard Disk
- Random Read Test
- Random Seek Test
- Sequential Read Test
- Sequential Seek Test
Memory
- Walking 0 Test
- Walking 1 Test
- Pattern Test
Modem
- Dial Tone Test
- Dial Tone and LoopBack Test
Network
- Network Ping Test
- Network HTTP Test
Parallel Ports
- Port Register Test

Serial Ports

- Register Test
- Interrupt ID Test
- Line Status Test
- Data Transfer Test

Video

- Video Gradient Test

Interactive Diagnostics Included

Keyboard

- Scan Code Check
- ASCII Code Check

Mouse

- Speed Test
- Double Click Speed Test

Video

- Video Resolution Test
- Visual Quality Test
- 3D Video Test

Audio

- Volume Test
- Speaker Test
- Wave File Test
- Frequency Synthesis Test

Trouble Ticket

Generated in Text or HTML Format
Complete System Inventory Report
Complete Diagnostics Report
Results Gathered are Sent in E-mail to Previously Determined Address

OEM Customization

Add New Components
Add New Information Views with New Icons
Remove Selected Information Views
Customizable Trouble Ticket
OEM Supplied Diagnostics can be Added

Hardware Information

System Summary
Motherboard Information
USB Information
ACPI Information
Resource Information
Enhanced VGA Information
Printer Information

Storage

IDE Information
DVD Information/Test
LS120 Test
ZIP Drive Information/Test
SCSI Information/Test

Misc. Tests

AGP Test
Enhanced Serial Port Test with Loopback
Enhanced Parallel Port Test with Loopback
Connect to System Tools

OS Info

Internet Information
System Files Information
Windows Class Information
Active Module and Process Information
NT Services Information

AMIDiag for DOS

Test Control

Condensed Scripted, Scripted & Batch Mode Testing
Interactive/Non-Interactive
Quick Test Mode with Additional Tests
Single/Multi Cycles Batch Testing
Test Progress Status
Test Result Logging on a File, COM: or LPT: Port
Customizable Log File
Integrates with External System Mgmt Products
Configuration Summary to File
Allows Running from RAM Drive when Boot from Floppy
Input/Output Redirection via COM Port (VT100 Interface)

CPU Tests

Supports, Detects & Verifies CPU Speeds (virtually no speed limit)
Tests MMX, Pentium III SIMD & 3DNow Extensions, Pentium II Xeon, Celeron, Pentium III, Pentium III Xeon, Pentium4 & Dixon
Tests AMD K6-2 & Athlon (K7)

Memory Tests

Memory Fault Isolation
Up to 64GB Memory Supported
Chipset Specific Tests for ECC on 440FX, 440LX, 440BX, 450NX & Profusion
Works with a Memory Manager Loaded
Parity, Pattern & Extended Pattern Tests
Walking 0s & 1s
Rom Pattern Test
Refresh Test
Cache Memory Test
Specific L2 Cache Test for Pentium II & Above
Quick Cache, Quick Data & Address Bus Tests
Memory Interleave & Bank Failure Reporting
ECC Error Monitoring
Supports Memory Holes

BIOS ROM Tests

ROM Read & Write

Multi-Processor

Tests up to 16 Processors
Supports Pentium Pro & Pentium II, Pentium II Xeon & Pentium III Xeon
CPU Steppings
Target Speed & L2 Cache
Detection of Incompatible CPUs
Multi-Processor System Information

System Board Tests

Serial & Parallel Port Tests
IrDA Test
CMOS & FPU
Speaker (Customizable)
DMA & Interrupt Controllers
Plug & Play (PnP)
EISA & Enhanced PCI Buses
PCI Bus Stress (Standard & Master PCI Cycles)

SMBus Tests

SMBus Controller Test (PIIX4/4E, SiS, ALI & VIA)
Customizable LM75 & LM80 Tests (OEMs only)

SCSI Device Tests

Automatic Device Detection
Enhanced Boot Sector
Supports 8 Channels (120 Devices)
Supports Narrow, Wide & Ultra Wide SCSI
Disk Read, Write, Format & Disk Buffer Tests
Disk, Tape & CD ROM Self Diagnostics
Bad Block Management & Replacement
Disk Spin Down
Physical Access to Devices on RAID cfg (MegaRAID)
Cluster Support (MegaRAID)
Tape Read, Write, Rewind & Tape Buffer Tests
CD-ROM Read, Play, Buffer & Tray Tests

IDE Hard Disk Tests

Supports 4 IDE Drives
Performance, Verify, Data Read & Seek Tests

Enhanced Boot Sector Test

Write Test

Over 9 GB Support Using ATA Interface

LBA Support

Sleep Mode After Testing

UDMA Support (Intel PIIX4)

IDE CD-ROM Tests

Uses ATAPI Interface

Supports Multiple IDE Controllers

No Drivers Required

Data only, Audio, Multi format, CD Plus & Multi-Session

CD's Support

CD Tray Functionally

CD Data Read & CD Audio Play Tests

CD-ROM Data Integrity Test

CD Audio Test through Sound Card

IDE DVD-ROM Tests

DVD Read & DVD Seek Tests

ATAPI Tapes

Write, Read, Seek & Rewind Tests

ATAPI LS120 & ZIP Drives

Write, Read, Seek & Soft Eject Tests

Supports both 100 and 250 MB ZIP

Floppy Disk Tests

Support 360 KB to 2.88 MB Drives

Format, Drive Speed & Elevator Seek Tests

Rom, Disk Change & Sequential Read/Write

Tests

Rewritten floppy disk diagnostics module to remove dependencies on BIOS interrupt calls

New tests include:

Floppy Disk Controller Test

Diskette Format Test

Drive Speed Test

Diskette Read Test

Diskette Write/Read Test

Elevator Seek Test

Disk Change Line Test

Modem Tests

IRQ Activation, Loopback & Dial Tone Tests

ISA Sound Card Tests

Automated Sound Card & FM Synthesis Tests

DMA & I/O Transfer Cycle

Windows Sound System Compatible

Stereo, Volume, DMA Channel & Pitch Tests

Playback Rate, Frequency, Mode & Speaker Tests

Basic Functionality Test (IRQ, DSP, MPU)

SoundBlaster, ESS & Crystal Compatible

PCI Sound Cards

Ensoniq 1370 & 1371

ESS Maestro 2, Maestro 2E & Maestro 2EM

Yamaha F740C

CardBUS Controller Tests

TI 1311, TI 1220 & TI 1225 Support

PCI Memory Space & Power Down Tests

Vcc Power, Register & Card Detect Pins Tests

COM Tests

Rewritten serial port diagnostics module (split from CoLpDiag)

New tests include:

Serial Port Hardware Test

Internal Loopback Test

External Loopback Test

FIFO Test

Baud Rate Test

I/R Basic Test

I/R Communication Test

Parallel Port Tests

Rewritten parallel port diagnostics modules (split from CoLpDiag)

New tests include:

LPT Hardware Test

Printer Test

EPP Test

ECP Test

Integrated Sound (Intel Chipsets)

Tests the Intel 810/815 built-in sound capabilities

New tests include:

Intel i810/i815 Sound Tests

Network Tests

Tests IPX & NetBIOS

Ping Test

Intel 82557/558 HW Test

PS/2 Keyboard Tests

Interactive & Non-Interactive Tests

Scan/ASCII Code, LED, Clock & Data Line Tests

Video Tests

Video MemSory, Attribute & Color Tests

Page Selection, Video Modes & AGP Bridge

Tests

VESA Memory & Frame Buffer

VESA Video Mode & Monitor (DDC)

LCD Panel Test

Intel i740 Based Graphic Cards

Register, Hardware Cursor & Local Memory

Tests

2D & 3D Rendering

Mouse Test

Single & Double Click

Graphics & Text Mode Tests

Power Management (APM)

Supports APM 1.0, 1.1 & 1.2

APM Functionally & Device APM Tests

Video controller specific diagnostics

New tests include:

VGA Controller Test

Video Memory Test

VESA Video Memory Test

AGP Test

Intel i810/i815 Test

Video monitor specific diagnostics (split from VdoDiag)

New tests include:

Attribute Test

Page Selection Test

Color Test

Text Mode Test

Graphics Mode Test

VESA Video Modes Test

VESA Monitor Test

LCD Panel Test

Update Support for all Test Modules

Updates to test modules will be made

available on the AMI web site

(www.ami.com)

ACPI Tests

ACPI Tables Test

S1/S2/S3 State Testing

DMI Tests

DMI 1.2 & 2.0 Tests

SMBIOS 2.1, 2.2 & 2.3 Tests

USB Tests

UHCI & OHCI Controller Support

Status, Register & Hot Device Plug-In Tests

Interrupt On Complete

Root Hub Port

USB Keyboard & USB Mouse Tests

USM Mass Storage Support

USB Hub Test

MegaRAID Card Tests (OEMs Only)

MegaRAID 428, 434 & 438 Boards

Multiple Boards Support

Register, Local Memory, Timer & DMA

Tests

SCSI Channel Loopback, Interrupt & Bus

Tests

MegaRAC Tests (OEMs Only)

CPU, LM 79, Serial Port & Memory Tests

Asynchronous Interface Test

PCMCIA Fax/Modem Card & NVRAM

Tests

Network Controller Card Test

Real Time Clock & LAN Controller Tests

System Information

Creates MIF File

System Board

CPU Stepping & Patch Level (P6)

AKeyboard Information

BIOS Info (System, Video, PnP, PCI & DMI)

Multi-Processor Configuration & Table Data

SCSI & IDE (Disks, Tapes, CDRoms, DVDs, LS120 & Zip) Devices

RAID (MegaRAID), MEGA Rac Board & CardBUS

Controller Information

Power Management

ACPI Support

Sound Cards & Modems

EISA, ISA & PCI

Plug & Play (PnP) (ISA PnP & On-Board Devices)

Display Details

Complete DMI, L2 Cache & Memory Information

DMI Event Log

USB Devices & SDRAM (SPD) Details

Network & System Configuration

Devices Drivers

Software Interrupts

List Autoexec.bat & Config.sys

XMS, DOS & EMS Environments

Physical & Logical Drives

Hardware IRQs

DMA Assignments

I/O Port List

Network HeartBeat

System Memory Map

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American
Megatrends

American Megatrends Inc. 6145-F Northbelt Parkway, Norcross,
GA 30071-2976 • Sales (800)828-9264
Main (770)246-8600 • Fax (770)246-8790

www.ami.com

AMI International Offices

Germany: [49]89-9699-9510 • Fax [49]89-9699-9519

United Kingdom: [44]208-848-8686 • Fax [44]208-848-8588

Japan: [81]3-5812-0020 • Fax [81]3-5812-0022

Taiwan: [886]2-2716-0036 • Fax [886]2-2718-1121

Korea: [82]2-569-5689 • Fax: [82] 2-569-4689