

PC-Doctor Service Center™ Data Sheet

PC-Doctor Service Center™ is the diagnostic toolkit used by repair organizations, IT professionals, system builders and others to troubleshoot and isolate hardware issues, and to verify system integrity on servers, desktops, notebooks and mobile devices. The Service Center Kit includes diagnostics for Windows, DOS, bootable diagnostics that NOW offer support for Intel-based Macs, and all NEW Android diagnostics.

Each kit contains CD and DVD test media, loopback adapters for serial, parallel, audio, and RJ45 ports, and a professional carrying case. In addition, the Service Center Premier Kit includes a power supply tester and PCI and miniPCI POST cards with remote display.

What's New?

- All NEW Android diagnostics for versions 2.3-5.01
 - Support included for ARM, 64-bit ARM and Intel x86 based devices and for all form factors
- Bootable diagnostics with support for Intel-based Apple Macs
- Bootable Diagnostics support for 64-bit UEFI Secure Boot enabled systems
- Additional battery information in Bootable diagnostics including design and current capacity
- Improved drive wipe performance and new drive wipe report
- Multiple drive wipe options
- Support of SLI configurations in Windows video testing
- Improved CPU and GPU/Video stress testing with increased loading

Features

Sessions

Automatically saves system information, test results and system snapshots to the Multipurpose USB Device (MUD):

- Organize by customer, system or other desired parameters
- Store test results from multiple test environments in one place as organized by your choice of sessions

My Links

Create shortcuts to the most used utilities, test scripts, or websites: The first five links are added to the main application screen for easy access.

System Snapshots

Snapshots provide a one-click solution to save a detailed system inventory on PCs and Macs:

- All hardware devices
- (Windows) OS, virus protection, web browser, Windows startup programs and device drivers

Compare two system snapshots to visually display all hardware and driver changes—great for auditing and building customer confidence.

Reporting

Create and save professional and printable reports for your customers. Customize the report to include:

- Report header with your company information and logo
- System Information: a quick summary or a more detailed view
- Tests performed and their Pass/Fail status
- System Snapshot comparisons for PCs and Macs

Personal Computers (PCs)

Hardware and Tests

The following information highlights key hardware support and tests. A complete list of all 447 diagnostics is available at:

<http://www.pcdservicecenter.com/diagnostics.php>.

Personal Computers (PCs) Continued

CPU

Chipset support:

- Support of the latest Intel and AMD chipsets

CPU/CoProcessor testing:

- Instruction Sets – MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, SSE4A, AVX, AVX2
- Buffer, Cache, Commands, Exceptions, Floating Point Unit, Interrupts, Operations, Prime Number Generation, Registers
- Stress test

Memory

- New Windows module for improved coverage
- Extended memory
- 17 testing algorithms for maximum coverage
- Low-level testing in protected-mode:
 - Supports 96GB+
 - Five testing algorithms that implement research done in conjunction with the University of Nevada, Reno (view here): <http://tinyurl.com/pcdmemory>

Storage

Supported controllers: PATA, SATA, SCSI, SAS

Supported devices:

- Hard Drives, Solid State Drives, SCSI Drives, USB Drives, Card Readers, Floppy Drives, Zip Drives
- Optical Drives:
 - Blu-ray/BD-R/BD-RE, HD DVD
 - CD-ROM/-R/-RW/+R/+RW
 - DVD-ROM/+R DL/-R DL/+R/-R/RAM/+RW/-RW

Available testing:

- S.M.A.R.T. Status and Conveyance Tests, Short and Long Self-Tests, Log Viewer
- Targeted Read Test algorithm created from a hard drive study done in conjunction with an OEM (view here): http://www.pc-doctor.com/images/files/case_study_hdd_testing.pdf
- Test individual hard drives within RAID configurations
- 56 Hard Drive, 22 Solid State Drive, 6 SCSI, 75 Optical Drive, 19 Floppy Drive, 5 Flash Storage, 7 Removable Storage tests

System Board

Supported chipsets: AMD, ATI, Intel, nVidia, SiS, VIA

Available testing:

- BIOS Timer, CMOS, CMOS RAM, RTC
- DMA Channels, IRQ Controller, RAM Refresh, SMBus, System Timer
- PCI, PCIe, miniPCI, miniPCIe, PCMCIA, PCMCIA Detection, CardBus
- 8042 keyboard controller, USB
- IEEE1394, USB
- 14 serial port tests
- 6 parallel port tests

Multimedia

Verify advanced audio and video capabilities through Windows or basic audio and video capabilities through Bootable/DOS diagnostics:

- DirectX (support through DX11) and CUDA video cards, Video Ports
- Audio testing up to 7.1 surround sound
- TV tuner cards – analog and digital
- Multi-Touch Touch Screen
- Webcam

Available Windows testing:

- 25 Video Card tests
- 6 TV Tuner Card tests
- 3 Touch Screen tests
- 3 Sound Card tests
- 9 Webcam tests
- 2 Display tests
- 1 Video Port test

Available Bootable Diagnostics/DOS testing:

- 10 Video Card tests
- 9 Webcam tests
- 7 Audio tests
- 1 Display test

Communications

Available testing:

- 28 Network tests:
 - Wired tests (10/100/1000Mb/10Gig)
 - Wireless tests (802.11a/b/g/n)
- 5 Bluetooth tests
- 9 Modem tests
- 2 Mobile broadband tests

Personal Computers (PCs) Continued

Sensors

- Accelerometer
- Ambient Light Sensor
- Gyrometer
- Magnetometer
- GPS
- Fingerprint Reader

Miscellaneous

- 13 Interactive tests
 - Alien FX LED Verification
 - Digitizer Stylus
 - Keyboard
 - Mouse
 - Trackpad
 - Trackpoint
 - Lid Sensor
 - Microphone
 - Joystick
 - Printer
 - Standby
 - Hibernate
 - USB Ports
- 4 Battery tests

Drive Erase

- Three methods to erase in Bootable Diagnostics (based on DoD 5022 guideline) and custom methods available
 - 1-pass
 - 3-pass
 - 7-pass
- Two methods to erase in DOS (based on DoD 5022 guideline)
 - Clear – single pattern
 - Sanitize – three patterns + verify
- Stores erasure progress: power failures no longer mean starting over
- Erase multiple drives simultaneously

Automation

Using built-in command-line and boot functions, you can:

- Launch test scripts or individual tests
- Save test logs and reports

System Events

Conveniently locate problems reported by Device Manager or the Windows Event Log, including devices without an installed driver, Application Crashes, and OS Crashes (BSOD). BSOD entries with available Windows dump files are analyzed to root cause the device driver that caused the BSOD.

Test Scripts

Test scripts are sequences of tests that run sequentially or in parallel, which can be saved for reuse. Create scripts in Windows or Bootable using the Script Editor to:

- Perform testing in parallel—put extra load on the system to better locate intermittent issues and speed up test time
- Specify minimum time per test or number of times to run each test
- Customize testing parameters: default values have been set to balance accuracy and speed

Intel-Based Apple Macs

Hardware and Tests

The following information highlights key hardware support and tests. A complete list of all 111 diagnostics is available at:

<http://www.pcdservicecenter.com/diagnostics.php>

CPU

Chipset support:

- Support of the latest Intel chipsets

CPU/CoProcessor testing:

- Instruction Sets – MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, SSE4A, AVX
- Buffer, Cache, Commands, Exceptions, Floating Point Unit, Interrupts, Operations, Prime Number Generation, Registers
- Stress test

Memory

- Same proven test algorithms used for years by PC-Doctor
- 12 memory tests

Intel-Based Apple Macs Continued

Storage

Supported controllers: SATA, SCSI, SAS

Supported devices:

- Hard Drives, Solid State Drives, SCSI Drives, USB Drives, Card Readers
- Optical drives:
 - Blu-ray/BD-R/BD-RE, HD DVD
 - CD-ROM/-R/-RW/+R/+RW
 - DVD-ROM/+R DL/-R DL/+R/-R/RAM/+RW/-RW

Available testing:

- S.M.A.R.T. Status and Conveyance Tests, Short and Long Self-Tests, Log Viewer
- 15 Hard Drive, 11 Solid State Drive, 3 SCSI, 26 Optical Drive, 5 Flash Storage, 5 Removable Storage tests

Multimedia

- 3 Video Card tests
- 9 Webcam tests
- 5 Audio tests
- 1 Display Test

Communications

- 16 Network tests:
 - Wired tests (10/100/1000Mb/10Gig)
 - Wireless tests (802.11a/b/g/n)
- 2 Bluetooth tests

Miscellaneous

- 4 Interactive tests
 - Keyboard
 - Mouse
 - Microphone
 - USB Ports
- 2 Battery tests

Drive Erase

- Three methods to erase in Bootable Diagnostics (based on DoD 5022 guideline) and custom methods available
 - 1-pass
 - 3-pass
 - 7-pass

Drive Erase Continued

- Erase multiple drives simultaneously

Automation

Using built-in and boot functions, you can:

- Launch test scripts or individual tests
- Save test logs and reports

Test Scripts

Test scripts are sequences of tests that run sequentially or in parallel, which can be saved for reuse. Create scripts using the visual Script Editor to:

- Perform testing in parallel – put extra load on the system, to better locate intermittent issues and speed up test time
- Specify minimum time per test or number of times to run each test
- Customize testing parameters – the default values have been set to balance accuracy and speed

Android Devices

Hardware and Tests

The following information highlights key hardware support and tests. A complete list of all 65 diagnostics is available at

<http://www.pcdservicecenter.com/diagnostics.php>.

Supported Devices:

- Android version 2.3 – 5.01
- All form factors

CPU

Supports ARM, 64-bit ARM, and Intel x86.

- 4 ARM CPU tests
- 8 x86 CPU tests

Storage

- 1 internal storage test

Memory

- Same proven test algorithms used by PC-Doctor for years, ported to Android
- 12 tests

Android Devices Continued

Multimedia

- 6 Screen tests including support for screens of all sizes, up to 10-point multi touch
- 9 Webcam tests including support for multiple cameras
- 3 Audio tests

Sensors

- Accelerometer
- Gyroscope
- Ambient Light
- Magnetic Field Sensor
- Proximity
- Vibration

Communications

- 1 Wireless Network test
- 2 Bluetooth tests
- 3 Mobile Broadband tests
- 2 GPS tests
- 2 NFC tests

Miscellaneous

- 3 Battery tests
- 2 Button tests
- 1 PCI test

Information and Ordering

For more information and to order, visit:

www.pcdservicecenter.com

To speak with an account manager, call:

United States: 1-866-289-7237

International: 1-775-336-4000

or email:

sales@pc-doctor.com



Founded in 1993, PC-Doctor Inc. is the global leader in reducing PC supplier costs through diagnostic and system information solutions for top PC makers, service centers and IT organizations. Acknowledged by leading PC manufacturers as the de facto standard for diagnostics, our customers load tens of millions of copies of our software on their systems every year.

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