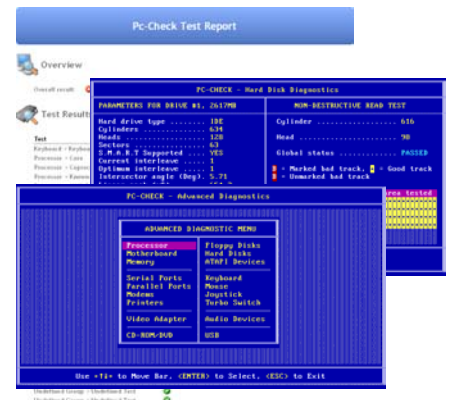


Technical Overview

Pc-Check® self-booting diagnostic software

Name:	Pc-Check®
Version:	6.21
Requirements:	Powered Motherboard Pentium Class CPU (80286/386/486 for Pc-Check Classic) Memory Graphics Card (VGA). 1 CDROM or 1 Floppy Drive. Keyboard. OS Independent (no operating system required). * Options exist for configured operation without keyboard or display



Pc-Check® is a professional-level, core hardware diagnostic and testing program specifically designed to reduce assembly, upgrade and repair service workloads. Independent of operating systems, Pc-Check® determines hardware faults and reduces returns, RMAs and repairs and is the “hardware testers” choice for original, self-booting diagnostic software.

PC servicing processes incur increasing development, manufacturing, support and maintenance costs through the entire lifecycle of the PC. Using reliable diagnostics to test all stages of the PC lifecycle will reduce costs and ensures time and service resources are not wasted.

Pc-Check® Package:

- ◆ Program CDROM.
- ◆ Comprehensive user manual.
- ◆ USB Preferred Port Plug (x1 per license).
- ◆ Loop-back plugs (x1 set per license).
- ◆ CD/DVD Test Disc, Status Indicator Box optional test accessory hardware.
- ◆ Upgrade Subscription Options — 1 year included free.
- ◆ Technical Support — included.

Overview:

Pc-Check® saves time, money and resources by reducing assembly, upgrade and repair test workloads. Independent of operating systems, Pc-Check® determines hardware faults and reduces returns, RMAs and repairs and is the “hardware testers” choice for original, self-booting diagnostic software.

- ◆ **Easy to Use** hardware tests.
- ◆ **Self-Booting** independent testing.
- ◆ **Core system** testing (extensive testing coverage without Windows drivers).
- ◆ **Command line, scripted, or manually selectable** tests speeds up test load times, burn-in tests and service reliability.
- ◆ **Generates multiple report types**, including a detailed hardware configuration snapshot, which can be written as text or as XML.

For PC repair and upgrading, IT Training, A+ Hardware Certification and core hardware testing, Pc-Check® delivers over 500 tests from one single disk, confirming reliable hardware for on-going software success.

Features:

Pc-Check® provides in-depth testing and diagnostic capabilities to identify problems and issues down to core component levels.

Key features of Pc-Check® include:

- ◆ Single CDROM, USB or floppy disk program operation.
- ◆ PXE network boot option.
- ◆ Over 40 command line options.
- ◆ Unlimited test log files & reports.
- ◆ Memory testing supports any memory size to the current limits of x86 technology.
- ◆ Multi-cycle, timed & pass burn-in testing.
- ◆ Multi-media testing.
- ◆ Latest CPU support including AMD, Intel, etc. Supports multiple processors for all CPU tests including 64bit (AMD64/Intel64) testing.
- ◆ Employs JIT code generation and virtual CPU models to provide unlimited test combinations.
- ◆ Detailed PC information.
- ◆ ATAPI device usage.
- ◆ Advanced USB Controller tests.
- ◆ Advanced memory testing.
- ◆ Memory microtopology locality detects evasive errors including BUS noise.



Product Overview

- ◆ Bootable CDROM, USB memory stick or floppy disk (no OS needed).
- ◆ PXE network boot option.
- ◆ Over 40 command line options.
- ◆ Unlimited test log files & reports.
- ◆ System file editor.
- ◆ Multi-cycle, timed, pass burn-in test.
- ◆ Multi-media testing.
- ◆ Latest CPU support AMD, Intel, etc.
- ◆ I/O Port mapping.
- ◆ ATAPI device usage.
- ◆ Advanced USB Controller tests.
- ◆ User friendly interface.
- ◆ Advanced memory testing.

Specialist Features
USB Utilities:

- ◆ OHCI/UHCI/EHCI controller detection test.
- ◆ Root Hub device information.
- ◆ 20 Host controllers & 60 Root hub ports can be tested at one time.

SCSI Utilities:

- ◆ Device identification.
- ◆ 1:1 Interleave support.
- ◆ Low-level format, bad block assign.

Progressive Hard Drive Utilities:

- ◆ IDE, SATA, PATA drives.
- ◆ Read verify, Timed Testing, HPA
- ◆ UDMA (66/33/100/133)*.
- ◆ 48bit addressing.
- ◆ Controller diagnostics.

Eurosoft Script Utility:

- ◆ System File Editor.
- ◆ Record test starting times/dates.
- ◆ Track hardware problems.
- ◆ File location option.

Save & Restore Utility:

- ◆ CMOS settings, Boot Block

System Management BIOS Information.
Configuration Manager.
Custom ROM Sizes.
Partial system & burn-in testing.
Hardware Specification Image file.
System Asset Configuration:
Machine Type and Operation:

- ◆ Processor type & speed ACPI Table test.
- ◆ BIOS signature and release date.

Interrupt Vectors

- ◆ Value and usage.
- ◆ PCI - I.D., location, type, size.

System Memory

- ◆ Base, extended and expanded.
- ◆ Internal and external cache size.
- ◆ PCMCIA & PC Card.
- ◆ Memory and Linear Address Viewer.

Multimedia

- ◆ Multiple CDROM/DVD support (I).

- ◆ PCI/ISA cards, Video Adaptors.
- ◆ S/VGA.

Video memory sizing

- ◆ VESA 2/3 support.
- ◆ Memory support up to 4Gb.

Disk Drives

- ◆ Installed hard and floppy drive sizes.
- ◆ Controllers, Sector Viewer.

Device Drivers

- ◆ Type and identification.

Network Adaptors.
Mouse Installation.
IRQ Assignments.
Advanced Power Management.
Advanced Configuration and Power.
Interface Information.
Component Testing
Memory (Up to 64 modules)

- ◆ Module seating.
- ◆ Microtopology Locality.
- ◆ Inversion tree.
- ◆ Stride Isolation.
- ◆ Chaotic addressing.
- ◆ Block rotation, module-by-module.
- ◆ Optional user pattern.

Cache Memory

- ◆ Integrated & external cache memory.
- ◆ Cache fault detection algorithms.
- ◆ Auto-repeat without Burn-in mode.
- ◆ L3 cache support.
- ◆ Refresh and address line.
- ◆ Multi-core shared level 2 cache support

Hard Drive (IDE, SATA, PATA, SCSI*)

- ◆ Mechanical stress testing.
- ◆ Non-destructive read/write..
- ◆ Destructive write tests option.
- ◆ Controller diagnostics.
- ◆ UDMA (66/33/100/133)*.
- ◆ 48bit addressing.
- ◆ Read verify.
- ◆ Time Controlled Testing.
- ◆ HPA support.
- ◆ SMART Testing
- ◆ Performance check

Floppy Disk Drive (1 to 2)

- ◆ Write protect, disk change.
- ◆ Read/Write tests, Controller diagnostics.

Stress Testing

- ◆ Tests for hard drive, DVD/CDROM, CPU, memory and graphics cards
- ◆ Command line scripting of sub-tests.

USB

- ◆ UHCI, OHCI & EHCI.
- ◆ USB information.
- ◆ Device listing.
- ◆ External Port Plug (L).
- ◆ Functional test.

Trusted Platform Module (TPM)*
Serial Ports (maximum 8)

- ◆ Handshake signals, interrupt generation (L).
- ◆ Individual pin testing (L).
- ◆ IRQ display, FIFO exercise (L).
- ◆ Internal loopback
- ◆ ePoS option.

Parallel Ports (maximum 3)

- ◆ Printer output - Status port.
- ◆ Interrupt generation (L).
- ◆ Controller testing.
- ◆ Individual pin testing (L).
- ◆ EPP/ECP port support (L).

Motherboard

- ◆ DMA controller, CMOS settings.
- ◆ PCI.
- ◆ CMOS RAM, system timers.
- ◆ Interrupt and keyboard controller.

Video Adaptor

- ◆ Monitor alignment linearity and dead LCD pixels.
- ◆ Memory, character set & attributes.
- ◆ Test cards, High/True colour, Check Gamma, and Check colour linearity.

Keyboard & PS/2

- ◆ Functionality test, controller signals, Scan codes, LEDs, key operations (I).

Mouse

- ◆ Driverless testing.
- ◆ Operations, 2 or 3 button (I).
- ◆ Text and graphics modes.

Processor & Co-processor

- ◆ Type identification & testing.
- ◆ MHZ Monitor.
- ◆ Full 3D-NOW! SSE/SSE2 and MMX instructions testing.
- ◆ Multi-Processor type identification & testing.
- ◆ Support for 64 processors/cores/threads.

Network Cards (Gigabit cards and above only)

- ◆ Controller tests.

DVD/CDROM Drive (1 to 4)

- ◆ Transfer test, Random Seek (I).
- ◆ Read, Play, DVD Laser Refocus (I).

PCI Express

- ◆ Negotiated link width verification.

Multimedia

- ◆ High Definition Audio
- ◆ Sound card, AC'97 PCI.
- ◆ FM & sampled audio tests.
- ◆ Driverless CDROM/DVD analysis (I).

ATAPI Devices

- ◆ LS-120, Zip drives,
- ◆ Magneto optical cartridges.

Modem (1 to 4)

- ◆ Writable registers.
- ◆ Generates carrier & dialling tones.
- ◆ Internal analogue loop-back.

*BIOS support required, (L) Requires a loop back (I) Interactive test

Eurosoft (UK) Ltd.

Head Office
 3 St. Stephen's Road, Bournemouth,
 Dorset, BH2 6JL, England
www.eurosoft-uk.com
 Tel: +44 (0)1202 297315
 Fax: +44 (0)1202 558280

Eurosoft (US) Inc.

North American Sales Office
 Suite 201, 70 Frenchtown Road
 North Kingstown, RI 02852, USA
www.eurosoft-us.com
 Tel: (401) 751-9595 Fax: (401) 751-0088
 Toll Free Tel: (888) 980-9595

Information & Sales:

Europe info@eurosoft-uk.com
 USA info@eurosoft-us.com

Support:

Europe support@eurosoft-uk.com
 USA support@eurosoft-us.com