

Pc-Check Technical Specification

Since 1980, Eurosoft has helped to uncover the problems that hinder the IT industry.

Eurosoft's PC reliability solutions provide a range of QA diagnostic and system management tools to help reduce the costs associated with the PC Life Cycle during development, manufacturing, support and maintenance of computer equipment.

Pc-Check Diagnostic Software

For PC repair and upgrading, IT Training*, A+ Hardware Certification* and core hardware testing, Pc-Check gives you over 500 tests from 1-single disk confirming reliable hardware for on-going software success. Since 1986, still the hardware 'testers' choice for fully functional, stand-alone software diagnostics.

Pc-Check Package

- 3.5" 1.44Mb program disk
- Comprehensive user manual
- USB Preferred Port Plug (x1 per license)
- Loop-back plugs (x1 set per license)
- Upgrade Subscription - 1 year free
- Technical Support - Included

System Requirements

- Power Supply & Floppy Drive
- Motherboard with CPU (minimum 80286+)
- Graphics Card (VGA), Keyboard
- 440Kb of free memory
- OS Independent (bootable test disk)

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Pc-Check®

diagnostic software

About Pc-Check Diagnostic Software

- **Customer test favorites:** PXE Network boot, SMART hard drive testing, Memory Microtopolgy Locality testing
- Independent testing, fully self-booting, no installation of operating system required
- Easy-to-use hardware tests check all PC components are running reliably
- Validate prototype and pre-production hardware during original equipment development
- Current hardware tests ensure PCs are built, upgraded and repaired correctly, regardless of brand
- Core system testing maximizes component reliability and working system integrity
- Hardware add-on test options enhance troubleshooting: smart USB Preferred Port Plugs, **new** DVD Test Disc, CD-ROM Test Disks, Preferred PCI/ISA POST board
- Reduces expensive field service calls, 'No Trouble Found' (NTF), wrongful product returns, overstocking field service products
- Supports **PC Builder Suite & QA+Win32**

Ask about Pro Bundle discounts and Student Packages for training courses today!



Please turn page over for test specifications

Pc-Check Technical Specification

Product Overview

Single disk program operation
 Bootable test 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 testing
 Multi-media testing
 Latest CPU support AMD, Cyrix, Intel
 CMOS editor, I/O Port mapping
 ATAPI device usage
 Advanced USB Controller tests
 User friendly interface
 Enhanced memory testing
 Modem tests up to 115,200 baud

Specialist Features

USB Utilities

OHCI & UHCI Controller detection & test
 Root Hub device information
 4 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 assignment

Progressive Hard Drive Utilities

ST506/412, MFM, RLL & IDE drives
 Read verify, Time 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
 includes XML comparison feature

Supports IT training

A+ Certification, Troubleshooting &
 Advance Troubleshooting courses, MSCE,
 Networking

Logo-file sponsors PC Support Service

Test Accessory Options

USB Preferred Port Plug
 The DVD Test Disc
 The CDROM Test Disc
 Preferred POST ISA/PCI test board
 Status Indicator Box (SIBs)
 Site License options available

System Asset Configuration

Machine Type and Operation

Processor type and speed
 Co-processor identification
 BIOS signature and release date
 DOS release version, Bus detection

Interrupt Vectors

Value and usage
 PCI (all devices, I.D., location, type, size)

Network

Adaptors

System Memory

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

Multimedia

Multiple CD-ROM/DVD drive support
 PCI/ISA Audio & Video cards
 Video Adaptors
 S/VGA, EGA, CGA, MDA, XGA & Hercules

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

Mouse Installation

IRQ Assignments

Advanced Power Management

Advanced Configuration and Power

Interface Information

Component Testing

Memory (stick)

Memory Microtopolgy Locality
 Inversion tree (ID refresh & cross-links bits)

Progressive inversion (locates trapped bits)
 Chaotic addressing (module stressing)
 Block rotation, module-by-module (extends address & cross-links)
 Optional user pattern (write all memory; choice of 32 bit repeats)

Memory

Integrated & external cache memory
 Cache fault detection algorithms
 Auto-repeat without Burn-in mode
 L3 cache support
 Pinpoint faults (RIMM module in Bank 0)
 Refresh and address line

IDE Drive (1 to 4)

SMART testing
 Mechanic stress testing
 Non-destructive read/write
 Destructive write tests
 Controller diagnostics
 UDMA (66/33/100/133)
 48bit addressing
 Read verify, Time Testing, HPA

Floppy Disk Drive (1 to 2)

Write protect, disk change
 Read/Write tests
 Controller diagnostics
 CD-ROM Drive
 Butterfly seek, reset and media tray eject

USB

UHCI & OHCI
 USB information
 Device listing (all devices & particular ports)
 External PortPlug*

Serial Ports (maximum 4)*

Handshake signals, interrupt generation
 Individual pin testing
 IRQ display
 FIFO exercise
 External Loop-back (1- 25 & 2- 9 pin serial)

Parallel Ports (maximum 3)*

Controller diagnostics, printer output-
 Status port, interrupt generation
 Controller testing
 Individual pin testing
 IRQ display, EPP & ECP port support
 External Loop-back (1- 25 pin parallel)

Motherboard

DMA controller, CMOS settings
 PCI
 CMOS RAM, real-time clock, system timers
 Interrupt controller, keyboard controller

Video Adaptor

Monitor alignment linearity and dead LCD pixels
 Video memory, character set & attributes
 Mode menu for VESA
 Test cards, High/True colour, Check Gamma, and Check colour linearity

Keyboard & PS/2*

Full functionality test, controller signals
 Scan codes, LEDs, key operations

Mouse*

Driverless testing
 Operations, 2 or 3 button
 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

Multimedia

Sound card, FM & sampled audio tests
 Driverless CD-ROM/DVD analysis to 66x

ATAPI Devices

LS-120, Zip drives
 Magneto optical cartridges up to 128Mb

Modem (1 to 4)

Writable registers
 Generates carrier & dialing tones
 Internal analogue loop-back

*Interactive tests may require optional hardware purchase

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