

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

- Program CD-ROM
- 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 486+)
- Graphics Card (VGA), Keyboard
- 512KB of free memory
- OS Independent (bootable test disk)

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Pc-Check®

diagnostic software

About Pc-Check Diagnostic Software

- **Customer test favorites:** Bootable CD-ROM, FireWire Controller testing, System stress testing, PXE Network boot, 64-bit processor testing, XML comparison feature.
- 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 disc 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, Intel
I/O Port mapping
ATAPI device usage
Advanced USB Controller tests
User friendly interface
Advanced 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 & 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
System stress test

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 ACPI Table Test
Co-processor identification
BIOS signature and release date
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

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

Hard Drive (1 to 16)

IDE, SCSI, SATA
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/DVD Drive (1 to 4)
Transfer test, Random Seek, Test Disc
Read, Audio Play, Tray and DVD Laser
Refocus

USB

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

FireWire

Controller Diagnostics
Compliance Information

Serial Ports (maximum 8)*

Handshake signals, interrupt generation
Individual pin testing, IRQ display
FIFO exercise, ePoS option
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, AC'97 PCI Audio support
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