



## Roteiro de Testes da PHD MINI PCI

### Hard Disk Test

0001h - Controller Internal  
Diagnostic

0002h - Drive Ready  
0004h - Recalibrate Drive  
0008h - Linear Seek  
0010h - Funnel Seek  
0020h - Random Seek  
0040h - Linear Read  
0080h - Random Read

### Hard Disk Read/Write Surface Test

0001h - Testing Memory Buffers  
0002h - Surface Data Inversion

### Com Port Test

0001h - COM Type Detection  
0002h - IRQ Generation  
0004h - Baud Rate Register  
0008h - Line Control Register  
0010h - Modem Control Register  
0020h - Interrupt Control Register  
0040h - Sizing FIFO Receiver  
0080h - Verify FIFO Trigger Levels  
0100h - FIFO Buffer Data & Address  
0200h - Max Baud Rate Detection  
0400h - Internal Loopback Status  
0800h - Internal Loopback

### Transmitting

1000h - External Loopback Status  
2000h - External Loopback Trans

### Modem Test

0001h - Modem Detection  
0002h - IRQ Generation  
0004h - Device Product Code  
0008h - Modem ROM Checksum  
0010h - Modem RAM Self Test  
0020h - Fax Class Support  
0040h - Software Reset  
0080h - Factory Default  
0100h - Speaker Control  
0200h - Volume Control  
0400h - Dial/Connect Control  
0800h - Hook Control

### LPT Test

0001h - LPT Type Detection  
0002h - Ext. Loopback IRQ  
Generation  
0004h - LPT General Control  
Register  
0008h - SPP/BPP/EPP Data Port  
0010h - BPP Bi-Directional Operation  
0020h - EPP Address Register  
0040h - EPP Data Ports 0-3  
0080h - ECP Control Register

0100h - ECP Internal FIFO Sizing

0200h - ECP FIFO Testing

0400h - ECP IRQ Assignment

0800h - ECP ISA IRQ Line Monitoring

1000h - ECP Configuration Registers

2000h - External Loopback

### CD(DVD)-ROM Test

0001h - Drive Ready/Status OK  
0002h - Media Presence and Valid  
0004h - Door Lock/Unlock Support  
0008h - Sequential Seek/Holding  
Track

0010h - Random Seek/Head

Positioning

0020h - Sequential Coil Read

0040h - Random Read/Accurate

Streaming

### A.R.M.D. Test

0001h - Drive Ready/Status OK

0002h - Medium Presence

0004h - Linear Seek

0008h - Linear Read

0010h - Random Read

0020h - Linear Read/Write/Verify

### Floppy Drive Test

0001h - Controller Diagnostic

0002h - Determine Drive Parameters

0004h - Linear Seek/Read

0008h - Funnel Seek/Read

0010h - Random Seek/Read

0020h - Linear Read/Write/Verify

0040h - Funnel Read/Write/Verify

0080h - Random Read/Write/Verify

0100h - Verify Rotation Speed

### Sound Blaster Test

0001h - FM Hardware Detection

0002h - SB DSP Detection

0004h - DSP Interrupt Line

0008h - SB 8-Bit DMA Channel

0010h - Mixer Detection

### PCI Bus Test

0001h - PCI BIOS Detection

0002h - PCI Buses Scan

0004h - Device Access Test

0008h - Device Search Test

0010h - Class Search Test

0020h - Check Device Status

0040h - Check Device BIST

### Plug-and-Play Test

0001h - PnP BIOS Detection

0002h - Device Node Access

0004h - Verify Node Access

0008h - Check Node Resources

0001h - Read ISA PnP Cards

0020h - Check ISA PnP Cards

### SM Bus Test

0001h - SM Bus Host Detection

0002h - SM Bus Host Registers Test

0004h - SM Bus Status

0008h - SM Bus Device Scanning

0010h - SM Bus Operation

### Keyboard Controller Test

0001h - Kbd Controller Cmd Byte  
Access

0002h - Kbd Controller Selftest

0004h - Keyboard Interface

0008h - Keyboard Interface Disable

0010h - Keyboard Interface Enable

0020h - Keyboard Data line On/Off

0040h - Keyboard Clock line On/Off

0080h - Keyboard Overrun Handler

0100h - BIOS Buffer Overrun Check

### APM Test

0001h - APM BIOS Detection

0002h - APM Real Mode Connect

0004h - APM 16-bit Connect

0008h - APM 32-bit Connect

0010h - APM Disconnect

0020h - CPU Idle/Busy

0040h - Get Power Status

0080h - Enter Standby Mode

0100h - Enter Suspend Mode

### CPU Test

0001h - Protected Mode Instructions

0002h - Stack Manipulation

0004h - Flag Conditions

0008h - Arithmetic Instructions

0010h - Data Transfer Control

0020h - Execution Control

0040h - Processor Control

0080h - String Operations

0100h - IA MMX Instructions

0200h - Intel IA MMX-2 Instructions

0400h - AMD 3DNow! Instructions

0800h - Internet Streaming SIMD!

### FPU Test

0001h - FDIIV Bug

0002h - FPU Busy Status

0004h - FPU Stack

0008h - FPU Tag Condition

0010h - Data Transfer & Constants

0020h - Compare Functions

0040h - Arithmetic Instructions

0080h - Transcendental Functions

0100h - Floating Unit Control

### FALHAS MAIS COMUM APRESENTADAS NO DIAGNÓSTICO:

0001h - SM Bus Host Detection - Significa que a Placa mãe pode não tem o SM Bus (Não é defeito).

0100h - BIOS Buffer Overrun Check - Geralmente a falha é porque a Placa mãe não tem o recurso Buffer de Teclado.