



Hard Disk Sentinel 4.40 PRO 12/16/2013 3:00:13 PM

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Physical Disk Information - Disk: #0: WDC WD20EZRX-00DC0B0

Hard Disk Summary

| | | | |
|--|---|--|----------------------|
| Hard Disk Number | : | 0 | |
| Interface | : | S-ATA Gen3 | |
| Disk Controller | : | NVIDIA nForce Serial ATA Controller (ATA) [VEN: 10DE, DEV: 0266] | |
| Disk Location | : | Bus Number 0, Target Id 0, LUN 0 | |
| Hard Disk Model ID | : | WDC WD20EZRX-00DC0B0 | |
| Firmware Revision | : | 80.00A80 | |
| Hard Disk Serial Number | : | WD-WCC1T0084720 | |
| Total Size | : | 1907726 MB | |
| Power State | : | Active | |
| Current Temperature | : | 40 °C | |
| Maximum Temperature (Ever Measured) | : | 40 °C, 12/16/2013 2:57:29 PM | |
| Minimum Temperature (Ever Measured) | : | 40 °C, 12/16/2013 2:57:29 PM | |
| Maximum Temperature (During Entire Lifespan) | : | 50 °C | |
| Power On Time | : | 63 days, 6 hours | |
| Estimated Remaining Lifetime | : | more than 1000 days | |
| Health | : | <div><div></div></div> | 100 % (Excellent) |
| Performance | : | <div><div></div></div> | 100 % (Excellent) |

The hard disk status is PERFECT. Problematic or weak sectors were not found and there are no spin up or data transfer errors.

No actions needed.

ATA Information

| | | |
|----------------------------|---|------------------------|
| Hard Disk Cylinders | : | 3876021 |
| Hard Disk Heads | : | 16 |
| Hard Disk Sectors | : | 63 |
| ATA Revision | : | ATA8-ACS |
| Transport Version | : | SATA Rev 2.6 |
| Total Sectors | : | 488378646 |
| Bytes Per Sector | : | 4096 [Advanced Format] |
| Multiple Sectors | : | 16 |
| Error Correction Bytes | : | 0 |
| Unformatted Capacity | : | 1907729 MB |
| Maximum PIO Mode | : | 4 |
| Maximum Multiword DMA Mode | : | 2 |
| Maximum UDMA Mode | : | 6 Gbps (6) |
| Active UDMA Mode | : | 6 Gbps (6) |

| | | |
|---|---|--------|
| Minimum Multiword DMA Transfer Time | : | 120 ns |
| Recommended Multiword DMA Transfer Time | : | 120 ns |
| Minimum PIO Transfer Time Without IORDY | : | 120 ns |
| Minimum PIO Transfer Time With IORDY | : | 120 ns |
| ATA Control Byte | : | Valid |
| ATA Checksum Value | : | Valid |

Acoustic Management Configuration

| | | |
|----------------------------|---|---------------|
| Acoustic Management | : | Not supported |
| Acoustic Management | : | Disabled |
| Current Acoustic Level | : | Default (00h) |
| Recommended Acoustic Level | : | Default (00h) |

ATA Features

| | | |
|-------------------------------|---|--------------------|
| Read Ahead Buffer | : | Supported, Enabled |
| DMA | : | Supported |
| Ultra DMA | : | Supported |
| S.M.A.R.T. | : | Supported |
| Power Management | : | Supported |
| Write Cache | : | Supported |
| Host Protected Area | : | Supported |
| Advanced Power Management | : | Not supported |
| Extended Power Management | : | Not supported |
| Power Up In Standby | : | Supported |
| 48-Bit LBA Addressing | : | Supported |
| Device Configuration Overlay | : | Supported |
| IORDY Support | : | Supported |
| Read/Write DMA Queue | : | Not supported |
| NOP Command | : | Supported |
| Trusted Computing | : | Not supported |
| 64-Bit World Wide ID | : | 0150E24E305D3285 |
| Streaming | : | Not supported |
| Media Card Pass Through | : | Not supported |
| General Purpose Logging | : | Supported |
| Error Logging | : | Supported |
| CFA Feature Set | : | Not supported |
| CFast Device | : | Not supported |
| Long Physical Sectors (8) | : | Supported |
| Long Logical Sectors | : | Not supported |
| Write-Read-Verify | : | Not supported |
| NV Cache Feature | : | Not supported |
| NV Cache Power Mode | : | Not supported |
| NV Cache Size | : | Not supported |
| Free-fall Control | : | Not supported |
| Free-fall Control Sensitivity | : | Not supported |

SSD Features

| | | |
|---------------------|---|---------------|
| Data Set Management | : | Not supported |
|---------------------|---|---------------|

| | | |
|-------------------------------|---|---------------|
| TRIM Command | : | Not supported |
| Deterministic Read After TRIM | : | Not supported |

S.M.A.R.T. Details

| | | |
|---|---|------------------------|
| Off-line Data Collection Status | : | Successfully Completed |
| Self Test Execution Status | : | Successfully Completed |
| Total Time To Complete Off-line Data Collection | : | 26880 seconds |
| Execute Off-line Immediate | : | Supported |
| Abort/restart Off-line By Host | : | Not supported |
| Off-line Read Scanning | : | Supported |
| Short Self-test | : | Supported |
| Extended Self-test | : | Supported |
| Conveyance Self-test | : | Supported |
| Selective Self-Test | : | Supported |
| Save Data Before/After Power Saving Mode | : | Supported |
| Enable/Disable Attribute Autosave | : | Supported |
| Error Logging Capability | : | Supported |
| Short Self-test Estimated Time | : | 2 minutes |
| Extended Self-test Estimated Time | : | 271 minutes |
| Conveyance Self-test Estimated Time | : | 5 minutes |
| Last Short Self-test Result | : | Never Started |
| Last Short Self-test Date | : | Never Started |
| Last Extended Self-test Result | : | Never Started |
| Last Extended Self-test Date | : | Never Started |
| Last Conveyance Self-test Result | : | Never Started |
| Last Conveyance Self-test Date | : | Never Started |

Security Mode

| | | |
|---------------------------------|---|-------------|
| Security Mode | : | Supported |
| Security Erase | : | Supported |
| Security Erase Time | : | 284 minutes |
| Security Enhanced Erase Feature | : | Supported |
| Security Enhanced Erase Time | : | 284 minutes |
| Security Enabled | : | No |
| Security Locked | : | No |
| Security Frozen | : | No |
| Security Counter Expired | : | No |
| Security Level | : | High |

Serial ATA Features




| | | |
|--|---|---------------------|
| S-ATA Compliance | : | Yes |
| S-ATA I Signaling Speed (1.5 Gps) | : | Supported |
| S-ATA II Signaling Speed (3 Gps) | : | Supported |
| S-ATA Gen3 Signaling Speed (6 Gps) | : | Supported |
| Receipt Of Power Management Requests From Host | : | Supported |
| PHY Event Counters | : | Supported |
| Non-Zero Buffer Offsets In DMA Setup FIS | : | Not supported |
| DMA Setup Auto-Activate Optimization | : | Supported, Disabled |

Device Initiating Interface Power Management : Supported, Disabled
 In-Order Data Delivery : Not supported
 Asynchronous Notification : Not supported
 Software Settings Preservation : Supported, Enabled
 Native Command Queuing (NCQ) : Supported
 Queue Length : 32

Disk Information

Disk Family : Caviar Green
 Form Factor : 3.5"
 Capacity : 2000 GB (2000 x 1,000,000,000 bytes)
 Number Of Disks : ?
 Number Of Heads : ?
 Disk Interface : Serial-ATA/600
 Buffer-Host Max. Rate : 600 MB/seconds
 Buffer Size : 65536 KB
 Drive Ready Time (Typical) : ? seconds
 Average Seek Time : ? ms
 Track To Track Seek Time : ? ms
 Full Stroke Seek Time : ? ms
 Width : 101.6 mm (4.0 inch)
 Depth : 147.0 mm (5.8 inch)
 Height : 26.1 mm (1.0 inch)
 Weight : 640 grams (1.4 pounds)
 Required Power For Spinup : ? mA
 Power Required (Seek) : ? W
 Power Required (Idle) : ? W
 Power Required (Standby) : ? W
 Manufacturer : Western Digital Corporation
 Manufacturer Website : <http://www.westerndigital.com/en/products>

S.M.A.R.T.

| | No. | Attribute | Threshold | Value | Worst | Data | Status | Flags |
|---|-----|---------------------------|-----------|-------|-------|--------------|---------------------|---|
|  | 1 | Raw Read Error Rate | 51 | 200 | 200 | 000000000000 | OK | Self Preserving, Error-Rate, Performance, Statistical, Critical |
|  | 3 | Spin Up Time | 21 | 250 | 168 | 0000000009BB | OK | Self Preserving, Performance, Statistical, Critical |
| | 4 | Start/Stop Count | 0 | 100 | 100 | 00000000024C | OK (Always passing) | Self Preserving, Event Count, Statistical |
|  | 5 | Reallocated Sectors Count | 140 | 200 | 200 | 000000000000 | OK | Self Preserving, Event Count, Statistical, Critical |
| | 7 | Seek Error Rate | 0 | 100 | 253 | 000000000000 | OK (Always passing) | Self Preserving, Error-Rate, Performance, Statistical |

| | | | | | | | | |
|--|-----|-------------------------------------|---|-----|-----|--------------|---------------------|---|
| | 9 | Power On Time Count | 0 | 98 | 98 | 0000000005EE | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 10 | Spin Retry Count | 0 | 100 | 100 | 000000000000 | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 11 | Drive Calibration Retry Count | 0 | 100 | 100 | 000000000000 | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 12 | Drive Power Cycle Count | 0 | 100 | 100 | 00000000024C | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 192 | Power off Retract Cycle Count | 0 | 200 | 200 | 0000000000AA | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 193 | Load/Unload Cycle Count | 0 | 179 | 179 | 00000000FACF | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 194 | Disk Temperature | 0 | 110 | 100 | 000000000028 | OK (Always passing) | Self Preserving, Statistical |
| | 196 | Reallocation Event Count | 0 | 200 | 200 | 000000000000 | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 197 | Current Pending Sector Count | 0 | 200 | 200 | 000000000000 | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 198 | Off-Line Uncorrectable Sector Count | 0 | 200 | 200 | 000000000000 | OK (Always passing) | Self Preserving, Event Count |
| | 199 | Ultra ATA CRC Error Count | 0 | 200 | 200 | 000000000000 | OK (Always passing) | Self Preserving, Event Count, Statistical |
| | 200 | Write Error Rate | 0 | 200 | 200 | 000000000000 | OK (Always passing) | Error-Rate |

Transfer Rate Information

| | | |
|------------------------|---|--|
| Total Data Read | : | 0 MB, 0 MB since installation (12/16/2013) |
| Total Data Write | : | 1 MB, 10 MB since installation |
| Average Reads Per Day | : | 0.00 MB |
| Average Writes Per Day | : | 10.00 MB |
| Current Transfer Rate | : | 0 KB/s |
| Maximum Transfer Rate | : | 44 KB/s |
| Current Read Rate | : | 0 KB/s |
| Current Write Rate | : | 0 KB/s |
| Current Disk Activity | : | 0 % |