

2.5" SATA SSD

How to Monitor Your SSD Health (SMART)

Checking Endurance @ CrystalDiskInfo

[Go to get CryStalDiskInfo](#)

Setting CrystalDiskInfo

Check Endurance

1. What are SMART attributes?

S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology; often written as SMART) is a monitoring system Storage drive. Its primary function is to detect and report various indicators of drive reliability to anticipate imminent hardware failures.

2. How to read SMART Value and attributes?

- Identifier: the definition of the attribute.
- Threshold: the minimum value for the attribute.
- Value: current value of the attribute.
- Worst: the smallest value of the attribute ever recorded.
- Data: raw measured values provided by a sensor or a counter.

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2. How to check SSD's Health and SMART?

Answer:

The easiest way to read SMART data from an SSD on Windows computers and devices is by using specialized apps. There are quite a few out there, but are either poorly developed or costly. Out of all the apps that can read SMART data, the best and the one that we're recommending that you use is **CrystalDiskInfo**. It is free, able to read SMART attributes

1. Please go to the website and get the CrystalDiskInfo software <https://crystalmark.info/en/software/crystaldiskinfo/>

The screenshot shows the 'Quick Download' section of the CrystalDiskInfo website. It features five download buttons: 'CrystalDiskInfo Standard Edition' (highlighted with a red box), 'CrystalDiskInfo Shizuku Edition', 'CrystalDiskInfo Kurei Kei Edition', 'CrystalDiskMark Standard Edition', and 'CrystalDiskMark Shizuku Edition'. Below the buttons is a calendar view for the month of September, showing dates from 1st to 30th. The 10th is highlighted in blue, and the 11th is highlighted in orange. To the right of the calendar, there is a section titled 'Complete Windows Forms' with the text 'Create High-Performance, Microsoft® Office For Desktop And Touch Devices.' and 'Ultimate UI For WinForms'.

Checking SATA SSD Health

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Check Endurance

- Open the CrystalDiskInfo, and you can find your SSD SMART, health information, and current temperature.

CrystalDiskInfo 8.1.0

File Edit Function Theme Disk Help Language

Good 44 °C C: Good 33 °C D:

SSD 250.0 GB

Health Status: **Good 94 %**

Temperature: **44 °C**

Firmware: M3CR010

Serial Number: 1748E1072773

Interface: Serial ATA

Transfer Mode: SATA/600 | SATA/600

Drive Letter: C:

Standard: ACS-3 | ACS-3 Revision 4

Features: S.M.A.R.T., APM, NCQ, TRIM, DevSleep

ID	Attribute Name	Current	Worst	Threshold	Raw Values
01	Raw Read Error Rate	100	100	0	000000000000
05	Reallocated NAND Blocks	100	100	10	000000000000
09	Power On Hours	100	100	0	000000000138
0C	Power Cycle Count	100	100	0	000000000138
AB	Program Fail Count	100	100	0	000000000000
AC	Erase Fail Count	100	100	0	000000000000
AD	Average Block-Erase Count	94	94	0	00000000005D
AE	Unexpected Power Loss Count	100	100	0	000000000014
B4	Unused Reserve NAND Blocks	0	0	0	000000000013
B7	SATA Interface Downshift	100	100	0	000000000000

Total Host Writes: 4700 GB

Rotation Rate: ---- (SSD)

Power On Count: 315 count

Power On Hours: 312 hours

HEADQUARTER

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