

CPUID HWMonitor Usage Guidelines

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Installation

HWMonitor is available as a setup version (that does automatically install the 32-bit or the 64-bit binaries depending on your Windows version, creates the application entries in start menu and on desktop) and as a .zip file that contains the two binaries (portable, no installation).

▪ Before Installing

For security reasons, before opening the installation file (either the .exe or the .zip), please check the **SHA256** checksum of the file that you've downloaded. In order to achieve that, open a command prompt (CMD command), then type :

```
certutil -hashfile FilenameWithCompletePath SHA256
```

For example : "certutil -hashfile c:\tools\cpuid\hwmonitor_1.63.zip SHA256".

then compare the output with the [checksums list](#) (please check the extension to be sure that you do the right comparison).

If the checksum is not the **exact same**, please **do not** open the downloaded file, and re-download it directly from our [website](#).

▪ Installation

If you've chosen the zip file, unzip the file in a folder and run the « x64 » version. If it does not start, this may mean that you are using a Win32 version of Windows, and in that case run the « x32 » version of the executable.

If you've chosen the Setup version, run the executable file and let it guide you through the installation process.

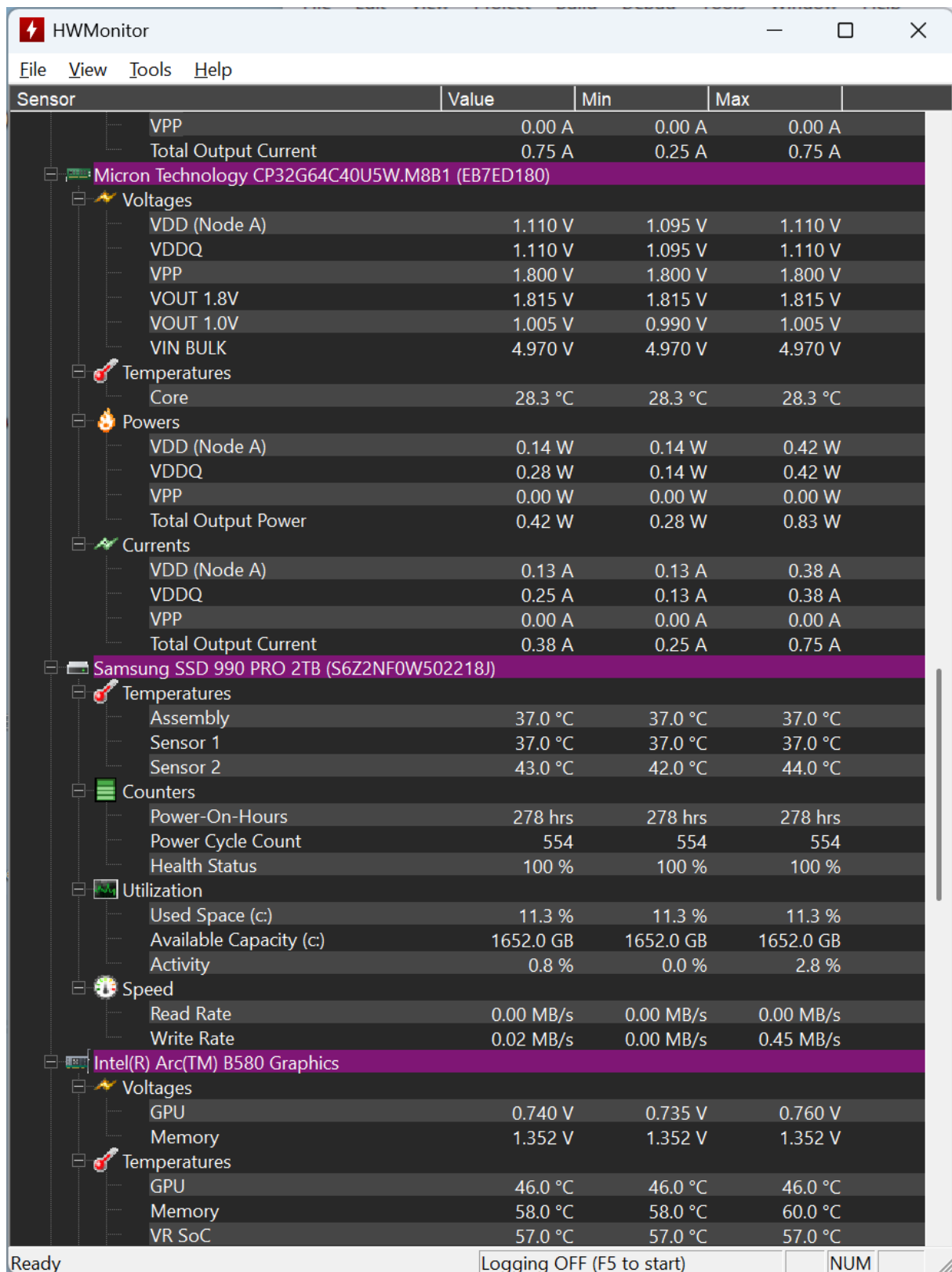
▪ Removal

You can remove the program either from the *Add or Remove Programs* window (from *Settings, Control Panel*), or choose *Uninstall HWMonitor* from *Start menu, Programs, CPUID*. Please note that the directory *CPUID* won't be deleted since it contains the ini file and possibly your registration key.

Interface customization

▪ Themes (*View -> Theme*)

Four themes are available : default (classic Windows), Grey/Purple, Grey/Orange and Blue.

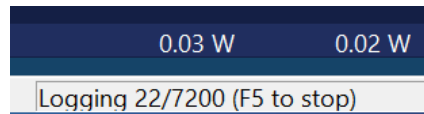


HWMonitor				
File View Tools Help				
Sensor	Value	Min	Max	
VPP	0.00 A	0.00 A	0.00 A	
Total Output Current	0.75 A	0.25 A	0.75 A	
Micron Technology CP32G64C40U5W.M8B1 (EB7ED180)				
Voltages				
VDD (Node A)	1.110 V	1.095 V	1.110 V	
VDDQ	1.110 V	1.095 V	1.110 V	
VPP	1.800 V	1.800 V	1.800 V	
VOUT 1.8V	1.815 V	1.815 V	1.815 V	
VOUT 1.0V	1.005 V	0.990 V	1.005 V	
VIN BULK	4.970 V	4.970 V	4.970 V	
Temperatures				
Core	28.3 °C	28.3 °C	28.3 °C	
Powers				
VDD (Node A)	0.14 W	0.14 W	0.42 W	
VDDQ	0.28 W	0.14 W	0.42 W	
VPP	0.00 W	0.00 W	0.00 W	
Total Output Power	0.42 W	0.28 W	0.83 W	
Currents				
VDD (Node A)	0.13 A	0.13 A	0.38 A	
VDDQ	0.25 A	0.13 A	0.38 A	
VPP	0.00 A	0.00 A	0.00 A	
Total Output Current	0.38 A	0.25 A	0.75 A	
Samsung SSD 990 PRO 2TB (S6Z2NF0W502218J)				
Temperatures				
Assembly	37.0 °C	37.0 °C	37.0 °C	
Sensor 1	37.0 °C	37.0 °C	37.0 °C	
Sensor 2	43.0 °C	42.0 °C	44.0 °C	
Counters				
Power-On-Hours	278 hrs	278 hrs	278 hrs	
Power Cycle Count	554	554	554	
Health Status	100 %	100 %	100 %	
Utilization				
Used Space (c:)	11.3 %	11.3 %	11.3 %	
Available Capacity (c:)	1652.0 GB	1652.0 GB	1652.0 GB	
Activity	0.8 %	0.0 %	2.8 %	
Speed				
Read Rate	0.00 MB/s	0.00 MB/s	0.00 MB/s	
Write Rate	0.02 MB/s	0.00 MB/s	0.45 MB/s	
Intel(R) Arc(TM) B580 Graphics				
Voltages				
GPU	0.740 V	0.735 V	0.760 V	
Memory	1.352 V	1.352 V	1.352 V	
Temperatures				
GPU	46.0 °C	46.0 °C	46.0 °C	
Memory	58.0 °C	58.0 °C	60.0 °C	
VR SoC	57.0 °C	57.0 °C	57.0 °C	
Ready		Logging OFF (F5 to start)		NUM

Grey/Purple theme

Data logging

HWMonitor includes a CSV (Comma-separated values) data logging capability. Logging is triggered with the **F5** key.



Logging status in the status bar

Real-time Graphs

HWMonitor 1.64 introduces a new feature that allows to display any sensor data in a real-time graph.

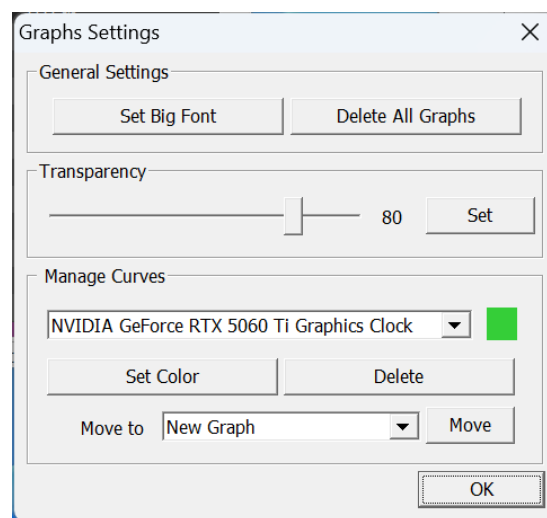


- **Add a sensor to the graph Window**

Select the sensor, then right-click to make the floating menu appear and chose *Add to Graph*. The graph window will automatically appear. By default, all sensors of the same type (temperatures, clock speeds, powers ...) are added to the same graph. A graph can handle up to 8 curves.

- **Customize the graph Window (“s”)**

Right-click on the graph Window then chose *Settings* (or press « s ») to display the graph settings dialog. For every curve displayed, it allows to move it (to a new or an existing graph), change its color, or delete it.



- *Set Big Font* increases the graph window font size to make it more readable on small side screens such as the Corsair Xeneon Edge.
- *Delete All Graphs* causes all graphs and associated curves to be deleted.
- *Transparency* allows to setup a transparency level for the graphs window.

Frequently Asked Questions (FAQ)

1. HWMonitor reports a CPU activity above 100%

Since its version 1.53, HWMonitor reports a processor activity that can exceed 100% in some cases. From this version, HWMonitor computes the CPU usage with the utility counters instead of the time counters, so doing the reported value matches the value in Windows task manager. However, whereas the task manager caps the maximum value to 100%, HWMonitor doesn't and can possibly report a value above 100%, in order to reflect clock increase mechanism such as turbo modes. You can find more information and explanations on the [dedicated Microsoft troubleshoot page](#).

2. Some cores show a * in the clock section.

The * is used to identify the fastest cores of the processor, when they exist. These cores can usually run at a slightly higher clock speed in comparison to the other cores.

3. The PCIe PEX errors counter of my NVIDIA graphics card is not 0 and increases constantly.

The PEX error counter counts the transfers from L0 to Recovery. It triggers for example during a change in speed, in width, and several other possible reasons that do not (always) mean that a PCIe error occurred.

On the contrary, the other counters must stay at 0, if they don't this means that there is truly a PCIe error (in a lot of case, this can mean an incompatibility between the mainboard and the graphics card).

4. What are the differences between HWMonitor and HWMonitor PRO ?

HWMonitor PRO shares the exact same hardware monitoring features as HWMonitor, and adds :

- remote monitoring (PC from PC and PC from Android device).
- Sensors as tray icons.
- more advanced logging capabilities, like the graphs generator.

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