

# A<sup>+</sup>SSDTOOL

**User Manual** 

2022/05/31

V2.1.0



# **Version Control Table**

Version	Date	Detail
2.0.0	2022/1/5	NVMe & SATA support
2.1.0	2022/5/31	Support to use NVMe & SATA USB Adapter

# **User Manual**

# **ADATA<sup>®</sup>** INDUSTRIAL

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# **Overview**

A<sup>+</sup> SSDTOOL is an application which provides user to monitor and manage ADATA Industrial SSD/NVMe.

A<sup>+</sup> SSDTOOL enables user to obtain ADATA Industrial SSD/NVMe health & status. User can check storage usage and the life of ADATA Industrial SSD/NVMe.

A<sup>+</sup> SSDTOOL provides the security erase feature for ADATA Industrial SATA SSD to do full erase.

A<sup>+</sup> SSDTOOL provides **Overview, Device Information, S.M.A.R.T. Attribute, Utilities, Alert, and System Information.** 

# **System Requirement**

Item	Minimum Requirement
Processor	Intel Core 2 Duo series or same level CPU
Memory	4 GB RAM
Free Disk Space	20 MB available hard disk space
Operational	Windows 10 or above
System	



# **Installation & Running**

Double click on A<sup>+</sup> SSDTOOL\_v2.1.0.0\_R\_XXXX.msi file then follow the instruction on screen to complete the installation.

# A+SSDTOOL\_v2.0.0.0\_R\_211201

After completed installation, use can see there is an A<sup>+</sup> SSDTOOL logo on Windows desktop. Right click A<sup>+</sup> SSDTOOL on Windows Desktop and click Run as administrator.





# **Overview**

When you run ADATA A<sup>+</sup> SSDTOOL, the main screen displays Overview.

ADATA' INDUSTR A+SSDTOOL		? − ×
Disk1 (E:H: 256 GB ) ADATA_IS SS3	33-256GDA SCSI Disk Device	✓ Refresh
Overview	Health: Oritical	Warning Ocod
Device Information	Temperature:	31 ℃ 87 °F
S.M.A.R.T. Attribute	Capacity:	Lifespan Estimation:
Utilities	96.0% 4.0%	0% 25% 50% 75% 100%
Alert		Total 256.1 GB Used 10.3 GB
System Information	Used Available	Available 245.7 GB
	The start was	Copyright© ADATA Technology Co., Ltd. All rights reserved.

There are 4 sections in Overview.

Device dropdown menu:

ADATA' INDUST A+ SSD TOOL	RIAL	GLOBAL LEADER IN	INDUSTRIAL-GR	? -   X
Disk1(E:H: 256 GB)ADATA_IS SS	333-256GDA SCSI Disk Device		~	Refresh
Disk0 ( C:D: 1024 GB ) WDC PC SN Disk1 ( E:H: 256 GB ) ADATA_IS SS	730 SDBPNTY-1T00-1101 333-256GDA SCSI Disk Device			
Overview	Health: Critical	Warning	Good	

User can select the disk which has been connected to system. All disks will be displayed including non ADATA device.

If user installed an external device, please click Refresh to update list disk.

NOTE: ADATA A<sup>+</sup> SSDTOOL only support ADATA Industrial SSD product, other brand may get incorrect information.







The temperature value is based on the SMART attribute

2. Capacity:

7

Capacity:	Lifes	pan Es	timation	:	
	100%				
<b>77.3%</b> 22.7%	0%	25%	50%	75%	 100%
	Total	238.5 GB			
	Used	54.2 GB			
Used Available	Available	184.2 GB			

Capacity displays the percentage of Used and Available disk volume. It also displays Total, Used and available disk size.



# **Device Information**

User can click Device Information to show current selected SSD information.

ADATA" INDUSTR A+SSDTOOL	IAL	GLOBAL LEADER IN INDUSTRIAL-GRADE	? -   X MEMORY
Disk1 ( E:H: 256 GB ) ADATA_IS SS33	3-256GDA SCSI Disk Device	✓ Ref	resh
Overview	Device Information	:	
Device Information	Serial number	00000008 02.10T4GA	
S.M.A.R.T. Attribute	Model Name Model Type	ADATA_ISSS333-256GDA 2.5" SSD	
<b>Y</b> Utilities	Interface Type Features Support	SATA 3.0 DMA Setup Auto-Activate optimization,	
Alert			
System Information			
	Tomat	Copyright© ADATA Technology Co., Ltd. All ri	ghts reserved.

Device Information shows Serial number, Firmware version, Model Type, Interface Type, Dimension (NVMe only) and feature list



### S.M.A.R.T. Attribute

S.M.A.R.T. Attribute (Self-Monitoring, Analysis and Reporting Technology) SSD support this feature for user to monitor the health, usage of SSD.

NOTE: ADATA A<sup>+</sup> SSDTOOL only supports ADATA Industrial SSD product, other brand may get incorrect S.M.A.R.T. value.

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ADATA A+SSD	INDUSTRI	AL	GLO				?	-  : 0RY
Disk0 ( C:D: 500 G	B ) KINGSTON SA20	000M8500G				Ý	Refresh	
Overv	iew	S.M.A.	R.T. Attribute :					
		ID	Attribute Name	Current	Worst	Thresho	Raw Values	~
Device	Information	01	Critical Warning	0	0	0	0000000000000	
		02	Composite Temperature	0	0	0	00000000012F	
		03	Available Spare	0	0	0	000000000064	
SMAR		04	Available Spare Threshold	0	0	0	00000000000A	
- S.W.A.		05	Percentage Used	0	0	0	0000000000001	
		06	Data Units Read	0	0	0	000000801D5F	
<b>U</b> 1		07	Data Units Written	0	0	0	00000060D5DD	
To Utilities	6	08	Host Read Commands	0	0	0	000007F3EF85	
		09	Host Write Commands	0	0	0	00000835221F	
14		10	Controller Busy Time	0	0	0	000000001014	
值 Alert		11	Power Cycles	0	0	0	0000000004CF	
		12	Power On Hours	0	0	0	000000000A7F	
		13	Unsafe Shutdowns	0	0	0	00000000005C	
System	n Information	14	Media and Data Integrity Errors	0	0	0	00000000200E	~



# **Utilities**

ADATA' INDUSTRI A+SSDTOOL	AL	GLOBAL	LEADER IN INDUSTRIAL-GR	? -   ×
Disk1(E:H: 256 GB)ADATA_IS SS333	256GDA SCSI Disk D	Device	~	Refresh
Overview	Utilities :			
Device Information			۲٦	
S.M.A.R.T. Attribute		Security Erase	Export Log	
<b>Y</b> Utilities				
Alert				
System Information				
		- Contract	avright® ABATA Technology.Co1td	All rights reserved

ADATA A<sup>+</sup> SSDTOOL utility includes Security Erase and Export Log.

Security Erase: It deletes all data and restore SSD as factory default.

NOTE: After Security Erase is completed, device must reconnect (unplug&plug) to the original system to activate SSD. Otherwise, the SSD device will be locked.

If SSD is installed as master and including operating system, Security Erase feature is disabled and shows selected disk is **!System Drive**.



#### ! System Drive

#### NOTE:

For security reasons, Windows OS freezes SATA storage device at some condition. This prevents Security Erase from running.

Suggest using SATA to USB adapter to do Security Erase feature on Windows 10 or later.



**Export Log**: This feature is able to export S.M.A.R.T. information and device information to specified location.

OS : Microsoft Windows 10 企業版 64 位元 Date : 2021/11/25 13:18:09	
\DATA_ISSS333-256GDA	
Model       : ADATA_ISSS333-256GDA         Firmware       : 021074GA         Serial Number       : 00000008         Disk Size       : 238.5 GB         Model Type       : 2.5" SSD         Interface Type       : SATA 3.0         Dimension       :         Power On Hours       : 301 Hours         Power On Hours       : 301 Hours         Power On Hours       : 301 Hours         Power On Count       : 26216 Count         Temperature       : 30 C (36 F)         Health       : 100 %         Features Support       : Device Sleep, Software settings preservation, In         Drive Letter       : C:         - S.M.A.R.T       -         D1 00 100       0 00000000000         Reallocated Sectors Count         001 100 100       0 00000000000         D1 00 100       0 00000000000         U2 100 100       0 000000000000         U2 100 100       0 00000000000         U2 100 100       0 000000000000         U3 100 100	nitiating interface power management, DWA Setup Auto-Activate opt 



## Alert

ADATA A<sup>+</sup> SSDTOOL provides alert notice feature. User can configure temperature, capacity, life remaining threshold of SSD, A<sup>+</sup> SSDTOOL will send E-mail notification if SSD status triggers user's setting.

ADATA' INDUSTRIA A+SSDTOOL	AL	GLOBAL LEADER IN IN	? – I X DUSTRIAL-GRADE MEMORY
Disk0 ( C:D: 500 GB ) KINGSTON SA200	00M8500G		<ul> <li>Refresh</li> </ul>
Overview	Item	Status	
Device Information	Temperature:	Under 100 C	C 212 °F
S.M.A.R.T. Attribute	Capacity	Less Than 0	мв
<b>Y</b> Utilities	Life Remaining	Less Than 0	%
🕍 Alert		ОК	Restore Default
System Information	Email Alert •	Off email@examp	SMTP Setting
	ALCON &	Copyright© ADATA Te	chnology Co., Ltd. All rights reserved.

#### Temperatures:

User can see the under and above threshold temperatures appear. By default, these are set to send alerts when the temperature drops below 0°C/32° F or rises above 100°C/212° F. User can change these values.

#### Capacity:

User can change Capacity value (MB). System sends E-mail notice if SSD size is below this value. **Life Remaining:** 

User can change Life Remaining (%). System sends E-mail notice if SSD life is below this value. After user enters the value, please click **OK** to save the data.

User also can click Restore Default to restore all data to factory default



#### **Email Alert Setting**

User must click SMTP Setting to configure SMTP mail server.

SMTP Info Setting			
SMTP:	smtp.gmail.com		
PORT:	587		
Account:	XXX@gmail.com		
Password:	•••••	•••	
Sender:	XXX@gmail.com		
- T T		Cancel	ОК

SMTP: IP address or hostname of your SMTP server.

PORT: Port number if it's not the default port number.

Account: Account of SMTP server.

Password: Password of account.

Sender: Sender's email address

#### Example:

This example uses GMAIL settings to illustrate. Fill out the required fields according to the instructions below:

SMTP: smtp.gmail.com

PORT: 587

Account: Enter your Gmail address.

Password: Enter your Google gmail app password which configured by your Google account.

Sender: Enter your Gmail address.

Google Gmail APP Password: please refer to below link:

https://support.google.com/mail/answer/185833?hl=en



Type receiver's email address and click switch Email Alert to **On** and click **OK**.

A<sup>+</sup> SSDTOOL sends Alert information every 10 mins if there is any Temperatures/Capacity/Life Remaining triggered. Alert Log file location: C:\Program Files (x86)\A+SSDTOOL\Log



#### Notification E-mail format:

Model : Serial Number : Temperature : 32 C (89.6 F) Life : 0 % Capacity : 373.1 GB Temperature Under : 30 C (86 F) Temperature Above : 0 C (32 F) Life Threshold : 0 % Capacity Threshold : 0 GB

NOTE: Some SMTP server has the limitation by using 3<sup>rd</sup> party application to send E-mail notification. Please contact IT before using this feature.



# **System Information**

Latest section is System Information. It shows system information such as Operating System, CPU, RAM, Graphic information and Motherboard information.

System Infomation :	
Operatiling System	Microsoft Windows 11 專業版 64 位元
CPU	Intel(R) Core(TM) i3-9100 CPU @ 3.60GHz
RAM	32.0 GB (31.9 GB usable)
Graphics	Intel(R) UHD Graphics 630
Motherboard Company	DFI Inc.
Motherboard Product	CS331



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