

DockCase DSWC1C-EB

DockCase Explorer Edition M.2 NVMe SSD Enclosure User Manual

INTRODUCTION

The DockCase Explorer Edition M.2 NVMe SSD Enclosure (Model DSWC1C-EB) is a high-performance external storage solution designed for M.2 NVMe PCIe SSDs. It features a unique HD display screen that provides real-time information about your SSD's health and performance. This manual will guide you through the setup, operation, and maintenance of your enclosure to ensure optimal performance and data safety.

PRODUCT FEATURES

- **Smart HD Display Screen:** Provides real-time information on SSD health status, disk life, power-on times, and remaining capacity.
- **10s Power Loss Protection (PLP):** Offers approximately 10 seconds of write time after power failure to prevent data loss and disk damage.
- **Power Shortage Reminder:** Alerts you if the power supply is below 15W, with visual cues for auxiliary power connection.
- **10 Gbps High-Speed Data Transfer:** Utilizes USB 3.2 Gen 2 Type-C interface and UASP acceleration protocol for speeds exceeding 900 Mbytes/sec.
- **Dual Heat Dissipation:** Features an RTL9210 control chip with temperature control and a graphite thermal pad for efficient heat management, extending SSD longevity.
- **Wide Compatibility:** Supports NVMe PCIe SSDs of sizes 2230/2242/2260/2280 and M-Key/B+M Key.

WHAT'S IN THE BOX

- 1* SSD Enclosure
- 1* USB3.2 Gen2 Data Cable

SETUP & INSTALLATION

SSD Installation

Follow these steps to install your M.2 NVMe SSD into the enclosure:

1. Loosen the screw on the back cover of the enclosure.

2. Insert your M.2 NVMe SSD into the PCB slot at an angle of approximately 30 degrees. Ensure the golden fingers are fully inserted.
3. Gently press down on the SSD with your hand to secure it.
4. Tighten the screw on the back cover to close the enclosure.

Dual Type-C Ports

Don't worry about insufficient power supply



Image: Step-by-step visual guide for installing an M.2 NVMe SSD into the enclosure.

Video: Official guide demonstrating the installation process of an M.2 NVMe SSD into the DockCase Explorer Edition enclosure.

Compatibility

The DockCase Explorer Edition M.2 NVMe SSD Enclosure supports various M.2 NVMe PCIe SSD sizes and key types. It is compatible with 2230, 2242, 2260, and 2280 form factors, supporting both M-Key and B+M Key SSDs.

Power Shortage Reminder

Keep Track of Power Supply Status in Real-time



Power shortage

42°C	dockcase	🔋
⚡ PLP Charging		
1TB / NVMe Gen1x2	WD BLACK SN770 1TB	
LIFE:100%	GOOD	
Power On: 89Hours		
↑ 0MB	↓ 0MB	USB3.1 Max 10Gbps



After auxiliary power

42°C	dockcase	🔋
⚡ 10Sec PLP Ready		
1TB / NVMe Gen1x2	WD BLACK SN770 1TB	
LIFE:100%	GOOD	
Power On: 89Hours		
↑ 0MB	↓ 0MB	USB3.1 Max 10Gbps



Image: Visual representation of compatible M.2 NVMe SSD sizes (2230, 2242, 2260, 2280) and supported M-Key and B+M Key types.



Image: A comprehensive list of compatible SSD models from various manufacturers like Samsung, WD, Kingston, and more.

Compatible SSD model	Samsung	990 PRO, 990 EVO, 980 PRO / PM9A1 / PM9A1a, 980, 970 PRO, 970 EVO Plus / PM981 / PM981a, 970 EVO, 960 PRO / 960 EVO / SM961 / PM961, 950 PRO / SM951	ADATA / XPG	XPG SX8200 Pro, XPG Gammix S70 Blade, XPG Gammix S50, XPG Gammix S11 Pro, SE900G, Legend 840
	WD (Western Digital)	SN850, SN810, SN750, SN740, SN570, SN550, PC SN720, PC SN740, PC SN530	Gigabyte	Gen4 7000s Premium, Gen4 7000s, Gen4 7300, Gen4 SSD (v2)
	Kioxia (Toshiba)	Exceria Pro / SE10, Exceria Plus G3 / SD10, Exceria Plus G2, Exceria Plus / RD20, Exceria G2 / RC20, Exceria / RC10, XG8, XG7, BG4, BG3	Sabrent	Rocket 4 Plus-G, Rocket 4 Plus, Rocket Q4, Rocket Q, Rocket 4.0
	Kingston	KC3000, KC2500, KC2000, FURY Renegade, A2000	Teamgroup	Cardea A440, Cardea A440 Pro(no Heatsink), Cardea Ceramic C440, Cardea Z440 TUF Gaming Alliance, Cardea Z44Q, Cardea Zero Z440, T-Creat Classic PCIe 4.0
	HikVision	FUTURE, DK4000, C4000, C4000ECO, CC700	Addlink	S95, S90, S70, A95, A93, A92, A90
	SK hynix	Platinum P41, Gold P31, P44 Pro, P41 Plus, PC711, BC711	Lexar	Play, NM800 Pro, NM800, NM790, NM710, ARES
	Asgard	AN4+, AN4	Corsair	MP600 Pro NH, MP600 PRO, MP600 Core XT, MP510
			Silicon Power	XS70, US70, XD80, UD70, A80

Image: A list of specific SSD models that are known to be incompatible with the enclosure.

Power Considerations

The enclosure supports a 15W auxiliary power supply to ensure stable operation, especially with high-power SSDs or when connected to USB ports with insufficient power output. The device will provide a visual reminder if additional power is needed.

10Gbps High-speed Data Transfer



Transfer Page :

The transfer rate can be read in real time

Image: Illustration of the dual Type-C ports, one for data transfer (Max 10Gbps) and one for auxiliary power supply (Max 15W).

Compatible With M.2 NVMe SSD

Supports capacity up to 4TB

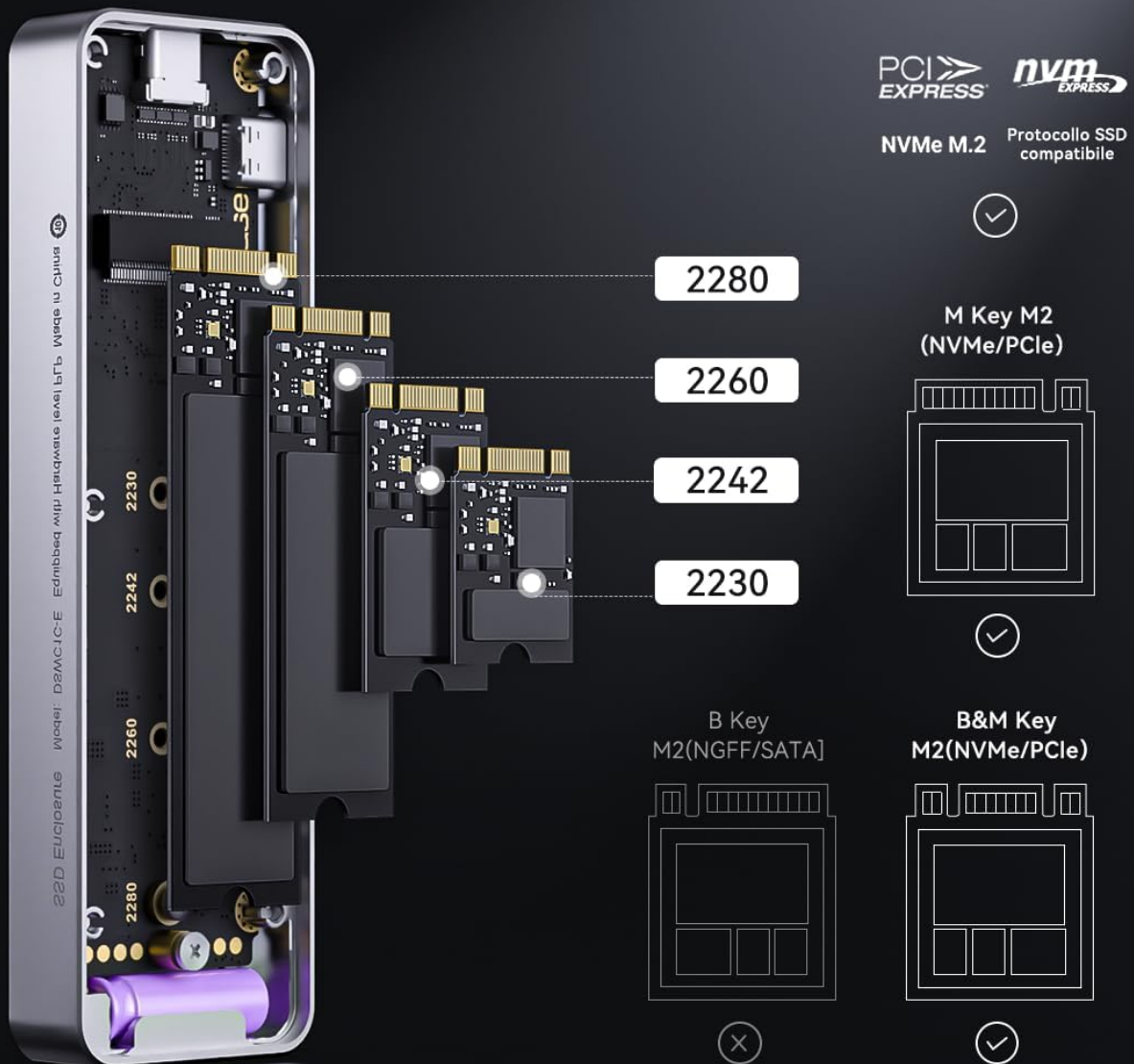


Image: The enclosure's screen displaying a yellow power shortage prompt and turning blue after connecting to the auxiliary power supply.

Video: Explains the importance of understanding SSD and device compatibility, particularly regarding power supply from USB ports.

OPERATING INSTRUCTIONS

Smart Screen Overview

The HD display screen provides real-time monitoring of your SSD. Upon connecting the enclosure, it will display the brand

logo and firmware version. After the SSD is read, the main page will appear.

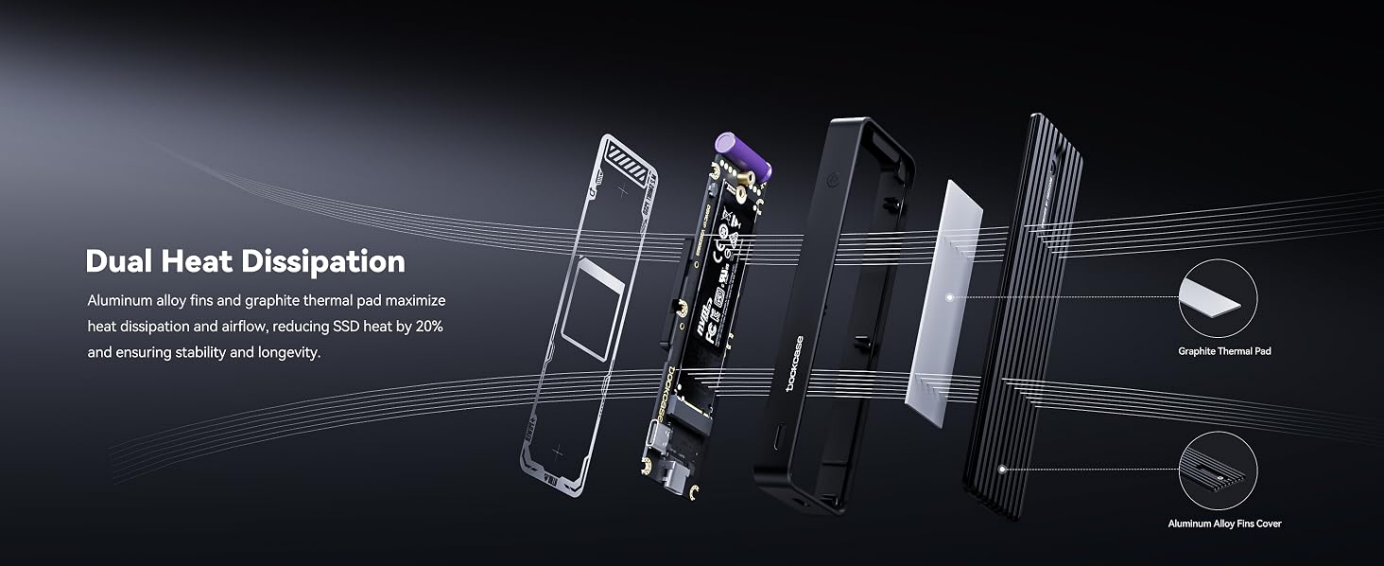


Image: Overview of the smart screen's main page and how to navigate to function pages using the D-Key button.

Understanding Display Information

- **SSD Info:** Displays SSD serial number, capacity, firmware version, unsafe shutdown count, and remaining life prediction.
- **Monitor Page:** Shows SSD temperature and USB interface voltage.
- **Transfer Page:** Displays real-time read/write speeds, data transferred in the current session, and total data read/written over the drive's lifetime.

Read-Only Mode

The read-only mode is off by default. To enable it, navigate to the SSD Info page, move the cursor to the ON side for 'Read Only Mode', and hold the D-key for more than 3 seconds. Once enabled, the computer can only read the SSD's data and cannot move, modify, or edit it. Changes to this option will take effect after a full power-off and restart.



Image: The smart screen displaying the 'Read Only Mode' setting, which protects sensitive data from changes.

Power Loss Protection (PLP)

The 10-second PLP feature utilizes built-in capacitors to provide a short burst of power in the event of an unexpected power loss. This allows critical data in transit to be safely saved, minimizing the risk of data corruption. After the capacitor fully discharges, the device returns to its normal state. It is recommended to wait about 10 seconds before reconnecting the device to allow all circuits and data systems to fully reset.

Installation



Image: Visual comparison of the enclosure's screen during PLP charging and PLP working states, indicating data protection.

Video: Official product video highlighting the 10-second Power Loss Protection feature of the DockCase Explorer Edition M.2 NVMe SSD Enclosure.

Auxiliary Power

Some SSDs may require more power than a computer's USB port can provide, which can lead to performance issues or prevent the SSD from booting properly. By connecting the 15W auxiliary power supply to the dedicated Type-C port, this situation can be avoided, ensuring stable operation.

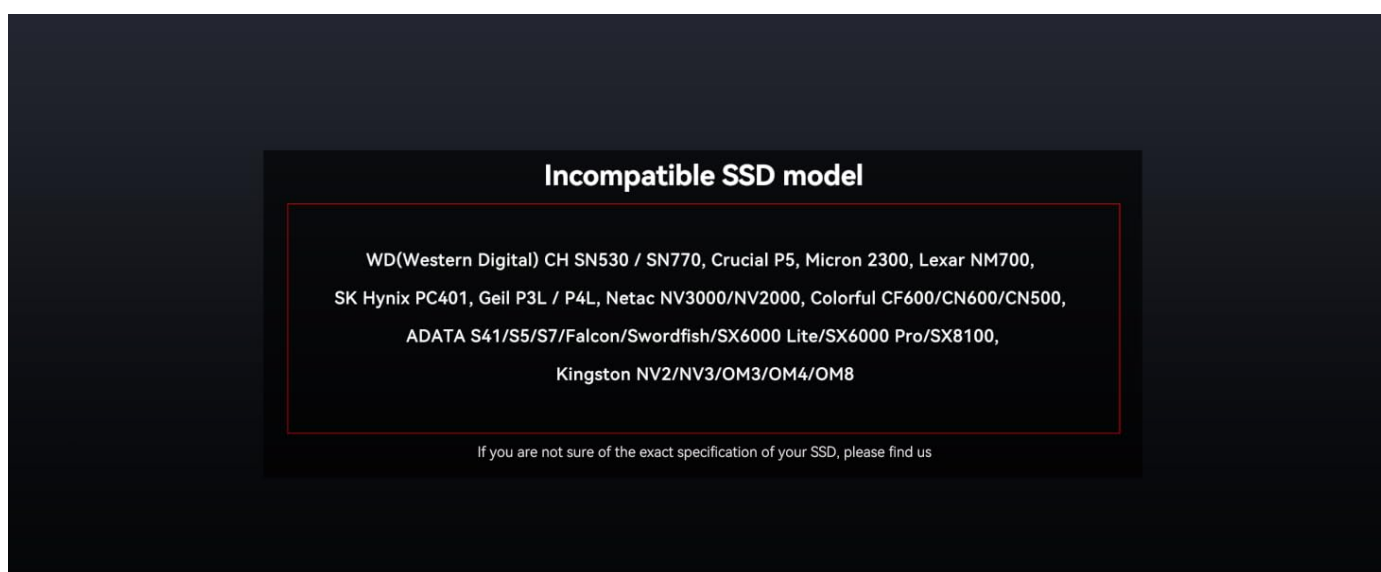


Image: The smart screen showing a power shortage warning (sad face) and the improved status (happy face) after connecting the 15W auxiliary power supply.

MAINTENANCE

Heat Dissipation

The enclosure is designed with dual heat dissipation features, including an aluminum alloy fin cover and a graphite thermal pad. These components maximize heat dissipation and airflow, reducing SSD heat by 20% and ensuring stability and longevity of your SSD.



Image: An exploded view illustrating the various layers and components contributing to the dual heat dissipation system.

Firmware Updates

Firmware updates for the DockCase enclosure are typically available by contacting technical support. It is recommended to check the official DockCase website or contact their support for the latest firmware versions and update procedures.

TROUBLESHOOTING

Common Issues

- **SSD Not Detected/Recognized:** If the enclosure is not detected or the SSD is not recognized, especially after a power interruption or connecting to a different PC, ensure the internal capacitor is fully discharged before plugging it in. Wait approximately 10 seconds after power loss before reconnecting.
- **Slow Transfer Speeds:** Ensure you are using a USB 3.2 Gen 2 Type-C port on your host device and that the UASP acceleration protocol is supported. Also, verify that the SSD itself is high-performance NVMe media. If the power supply is insufficient, connect the 15W auxiliary power supply.
- **Data Loss/Corruption:** The 10s PLP feature is designed to prevent this. If data loss occurs, it might be due to extreme power fluctuations or not allowing the PLP to complete its cycle. Always ensure proper dismount procedures.
- **Enclosure Not Powering On:** If the enclosure does not power on, ensure it is properly connected to a power source. If using a low-power USB port, try connecting the 15W auxiliary power supply. If the issue persists, the device may be faulty.

SPECIFICATIONS

Feature	Detail
Model Number	DSWC1C-EB
Memory Storage Capacity	4 TB
Compatible Devices	Laptop
Hard Disk Form Factor	2.5 Inches (Note: This seems to be a general category, the product is for M.2 NVMe)

Max Number of Supported Devices	1
Data Transfer Rate	10 Gigabits Per Second
Product Dimensions	6.22 x 1.18 x 2.36 inches
Item Weight	5.3 ounces (149 Grams)
Hardware Interface	USB, USB 3.2 Gen 2
Material	Aluminum

WARRANTY & SUPPORT

The DockCase Explorer Edition M.2 NVMe SSD Enclosure typically comes with a 12-month warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or warranty inquiries, please visit the official DockCase website or contact their customer service team. Detailed contact information can usually be found on the product packaging or the manufacturer's website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question