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ICY BOX 40Gbps M.2 NVMe SSD Enclosure IB-1920M-C42

User Manual

Model: IB-1920M-C42

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ICY BOX 40Gbps M.2 NVMe SSD Enclosure, model IB-1920M-C42. This enclosure is designed for high-speed data transfer and reliable storage solutions, compatible with various M.2 NVMe SSD sizes and modern connectivity standards.



Image: The ICY BOX 40Gbps M.2 NVMe SSD Enclosure, a sleek black device with a ribbed aluminum casing, shown alongside its accompanying USB-C to USB-C cable.

SETUP

1. SSD Installation (Tool-Free)

1. Gently slide open the enclosure case. The design allows for easy access without tools.
2. Insert your M.2 NVMe SSD (M-Key or B+M-Key) into the slot. Ensure it is properly seated. The enclosure supports SSD sizes 2230, 2242, 2260, and 2280.
3. Secure the SSD using the provided rubber fixation.
4. Place the thermal pad onto the SSD to facilitate heat transfer to the enclosure's aluminum body.
5. Align the top cover with the enclosure, ensuring the "USB" marking on the cover aligns with the side containing the USB port. Slide the cover closed until it clicks securely.

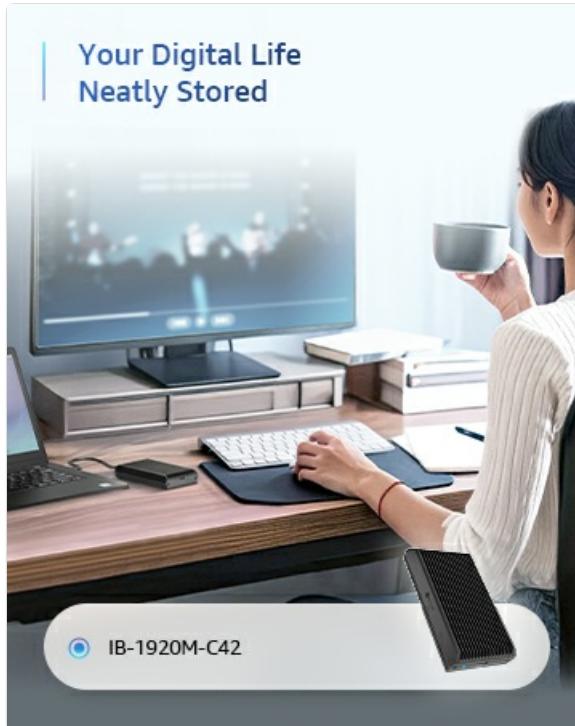


Image: A hand demonstrating the tool-free installation process, showing the top cover being lifted to reveal the internal slot for an M.2 NVMe SSD.



Image: A diagram illustrating the compatibility of the enclosure with various M.2 NVMe SSD sizes (2280, 2260, 2242, 2230) and M-key/B+M-key types.

OPERATING INSTRUCTIONS

1. Connecting to a Host Device

Connect the enclosure to your computer or compatible device using the provided USB-C cable. The enclosure supports a wide range of interfaces:

- **USB4 / Thunderbolt 4:** For optimal 40Gbps transfer speeds.
- **Thunderbolt 3 / USB 3.2 Gen 2x2:** Speeds up to 20Gbps.
- **USB 3.2 Gen 2:** Speeds up to 10Gbps.
- **USB 3.2 Gen 1 / USB 3.0:** Speeds up to 5Gbps.
- **USB 2.0:** Speeds up to 480Mbps.

To achieve the maximum 40Gbps transfer speeds, your host device must support USB4 or Thunderbolt 4, and you must use a compatible USB4-certified cable and port. Actual performance may vary based on the SSD's read/write speed and your device's hardware configuration.



Image: A graphic illustrating the ultra-fast transfer speed of 40 Gbit/s, showing a 1GB file transfer in 0.3 seconds, significantly faster than USB 3.2 Gen 2.

2. Operating System Compatibility

The ICY BOX IB-1920M-C42 is plug-and-play compatible with a variety of operating systems:

- macOS
- Windows
- Linux
- Chrome OS



Image: A visual representation of the enclosure's compatibility, showing it connected to a laptop, tablet, mobile phone, PC, gaming console, and camera, and supported by macOS, Windows, Linux, and Chrome OS.

3. Product Overview Video

Your browser does not support the video tag.

Video: An official product video from ICY BOX US showcasing the features and ease of use of the 40Gbps M.2 NVMe SSD Enclosure.

MAINTENANCE

1. Heat Dissipation

The enclosure features a heatsink-style aluminum body and includes a thermal pad to efficiently transfer heat away from the SSD. This fanless design ensures silent operation while maintaining optimal temperatures for stable performance, even during intensive data transfers.



Image: A visual breakdown of the enclosure's heat dissipation system, highlighting the unibody aluminum construction, fin structure, and silicon thermal pad for stable operation.

2. Durability

Constructed from a single piece of 4mm aluminum alloy, the enclosure provides high mechanical strength and superior resistance to deformation. This robust design ensures the safety and longevity of your SSD.



Image: A close-up view emphasizing the 4mm shell thickness and premium aluminum casing, showcasing the durable all-metal housing designed to keep the SSD safe and secure.

TROUBLESHOOTING

- **Top Cover Difficult to Close:** Ensure the "USB" marking on the top cover is aligned with the side that has the USB port. Incorrect alignment can prevent proper closure.

- **Not Achieving 40Gbps Speed:** To reach 40Gbps, your host device must support USB4 or Thunderbolt 4, and you must use a compatible USB4-certified cable and port. Older ports (e.g., USB 3.2, Thunderbolt 3) will limit speeds. The SSD's read/write speed and your system's hardware configuration also affect performance.
- **Backward Compatibility:** The enclosure is backward compatible with USB 3.2 Gen 2/Gen 1 and USB 2.0, but transfer speeds will be limited to the maximum supported by those ports.
- **SSD Not Included:** This product does not include an NVMe SSD. You need to purchase and install an SSD separately.

SPECIFICATIONS

| Feature | Detail |
|--------------------|------------------------------|
| Model Number | IB-1920M-C42 |
| Material | Aluminum, Plastic |
| Item Weight | 2.85 ounces (0.08 Kilograms) |
| Data Transfer Rate | 40 Gigabits Per Second |
| Product Dimensions | 4.33 x 1.57 x 0.55 inches |
| Hardware Interface | Thunderbolt 4 |
| Color | Black |
| Hardware Platform | Game console, PC, Phone |
| Manufacturer | TECHDRIP COMPANY LIMITED |

WARRANTY AND SUPPORT

The ICY BOX 40Gbps M.2 NVMe SSD Enclosure comes with a **24-month warranty**. Additionally, ICY BOX provides **lifetime expert support** for its products.

For further assistance or to contact support, please visit the official ICY BOX website or refer to the contact information provided with your product packaging.