

ORICO M20-512GB

ORICO M20-512GB External SSD User Manual

Model: M20-512GB

1. PRODUCT OVERVIEW

The ORICO M20-512GB External SSD is a portable solid-state drive designed for high-speed data transfer and reliable storage. It features a compact design and offers broad compatibility with various devices and operating systems.

- **High-Speed Performance:** Achieves data transfer speeds up to 2000MB/s using USB 3.2 Gen 2x2 interface.
- **Compact and Portable:** Lightweight and slim, designed for easy transport.
- **Wide Compatibility:** Supports USB-A and USB-C devices, including smartphones, tablets, laptops, and PCs, across Android, Windows, iOS, and Mac OS.
- **Durable Construction:** Crafted from durable alloy and ABS material for enhanced protection.



Image 1.1: The ORICO M20 SSD held between two fingers, emphasizing its compact size.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- ORICO M20 External SSD (512GB)
- 2-in-1 USB-C to USB-C/USB-A Cable

3. SETUP AND CONNECTION

The ORICO M20 External SSD is designed for plug-and-play functionality, requiring no additional drivers for most operating systems.

1. **Connect the Cable:** Use the provided 2-in-1 USB-C cable. Connect the USB-C end to the ORICO M20 SSD.
2. **Connect to Device:** Connect the other end of the cable to your host device (computer, smartphone, tablet, etc.). The cable supports both USB-C and USB-A ports.
3. **Initial Recognition:** Your device should automatically detect the SSD. For Windows and macOS, the drive will appear in 'This PC' or 'Finder' respectively. For some devices, initial formatting may be required.

Compatibility

The ORICO M20 SSD is compatible with a wide range of devices and operating systems:

- **Operating Systems:** Android, Windows, iOS, Mac OS.
- **Devices:** Smartphones, Tablets, Laptops, Desktop PCs.

Amplia compatibilidad

Plug and play para casi todos los dispositivos y sistemas



Image 3.1: The ORICO M20 SSD connected to various devices (laptop, tablet, smartphone) and icons representing compatibility with Android, Windows, iOS, Mac OS, and TV.

4. OPERATING INSTRUCTIONS

Once connected, the ORICO M20 SSD functions like any other external storage device. You can drag and drop files, copy, paste, and manage data.

Data Transfer

To transfer files, simply open the drive folder on your computer or device and move your desired files to or from the SSD. The high-speed interface allows for rapid data transfers.



Image 4.1: The ORICO M20 SSD connected to a laptop via its USB-C cable, with '20Gbps' text indicating high-speed transfer.

Maximizing Transfer Rate

To achieve the maximum transfer speed of 2000MB/s (20Gbps), ensure the following conditions are met:

- **Matching Cable:** Use a cable that supports 20Gbps transfer rates. The included ORICO cable is designed for this purpose.
- **Compatible Interface:** Your host device must have a USB 3.2 Gen 2x2 port. While the SSD is backward-compatible with older USB versions, the transfer speed will be limited by the slowest component in the connection chain.
- **Host Device Performance:** The read and write speeds of the receiving device's internal storage also affect overall transfer rates. For optimal performance, the host device's storage should also be capable of speeds over 2000MB/s.

Compatible With Multiple File Formats





512GB	≈	 48000 PHOTOS	≈	 25 GAMES	≈	 576 HOURS	≈	 160000 FILES
1TB	≈	 96000 PHOTOS	≈	 50 GAMES	≈	 1152 HOURS	≈	 320000 FILES
2TB	≈	 192000 PHOTOS	≈	 100 GAMES	≈	 2304 HOURS	≈	 640000 FILES
4TB	≈	 348000 PHOTOS	≈	 200 GAMES	≈	 4608 HOURS	≈	 1280000 FILES
Calculation		10M/Photo		20G/3DGame		4K UHD		3M/File

Image 4.2: Graphic illustrating the evolution of USB speeds, showing USB 3.0, USB 3.1 Gen 2, and USB 3.2 Gen 2x2, with the ORICO SSD achieving 20Gbps.



Image 4.3: Diagram explaining how to maximize transfer rate, focusing on using a matching 20Gbps cable.



Image 4.4: Diagram explaining how to maximize transfer rate, emphasizing the need for a compatible USB 3.2 Gen 2x2 interface on the host device.



Image 4.5: Diagram explaining how to maximize transfer rate, highlighting the importance of the receiving device's read/write speeds.

Storage Capacity Examples

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Image 4.6: Table showing estimated storage capacity for photos, games, and video hours for 512GB, 1TB, 2TB, and 4TB SSDs.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your ORICO M20 External SSD, follow these care guidelines:

- **Handle with Care:** While durable, the SSD should be treated as a sensitive electronic device. Avoid dropping it or subjecting it to strong impacts.
- **Temperature Management:** During prolonged high-speed transfers, the SSD may become warm. This is normal. Ensure adequate airflow around the device and avoid covering it to prevent overheating, which can lead to reduced performance.
- **Keep Clean:** Use a soft, dry cloth to clean the exterior. Avoid liquid cleaners or abrasive materials.
- **Safe Ejection:** Always safely eject the SSD from your operating system before disconnecting it to prevent data corruption.
- **Storage:** Store the SSD in a cool, dry place away from direct sunlight and extreme temperatures.

Robusto y fiable

No tiene que preocuparse por la pérdida de datos,
protección integral de sus contenidos



Image 5.1: The ORICO M20 SSD on a rocky surface, with icons indicating fall and dust prevention, highlighting its durability.

6. TROUBLESHOOTING

If you encounter issues with your ORICO M20 External SSD, refer to the following common problems and solutions:

- **SSD Not Detected:**

- Ensure the cable is securely connected to both the SSD and the host device.

- Try a different USB port on your device.
- Test with a different USB cable if available.
- Restart your computer or device.
- Check Disk Management (Windows) or Disk Utility (macOS) to see if the drive is recognized but unformatted.

• **Slow Transfer Speeds:**

- Verify that your host device has a USB 3.2 Gen 2x2 port for maximum speed. Connecting to a USB 3.0 or older port will result in lower speeds.
- Ensure you are using the provided 20Gbps compatible cable.
- Large file transfers can sometimes generate heat, which may cause the SSD to throttle performance to protect components. Allow the drive to cool down.
- The speed of the internal drive on your host device can also be a bottleneck.

• **Data Corruption or Errors:**

- Always safely eject the SSD before disconnecting it.
- Run a disk check utility on your operating system to scan for and repair errors.

7. SPECIFICATIONS

Feature	Detail
Brand	ORICO
Model Number	M20-512GB
Digital Storage Capacity	512 GB
Hard Disk Interface	USB 3.0 (Note: Product supports USB 3.2 Gen 2x2 for 20Gbps)
Connectivity Technology	USB
Special Feature	Portable
Hard Disk Form Factor	2.5 Inches
Hard Disk Description	Solid State Drive
Compatible Devices	Desktop, Laptop, Smartphones, Tablets
Installation Type	External Hard Drive
Color	Black + Silver
Item Weight	2.12 ounces (approx. 60 grams)
Product Dimensions (LxWxH)	3.15 x 1.77 x 0.43 inches (approx. 80 x 45 x 11 mm)

Note: The 'Hard Disk Interface' listed as USB 3.0 in some specifications refers to a general category. This specific model supports USB 3.2 Gen 2x2 for optimal performance.

Vaya donde vaya

Lleva tus datos en el bolsillo, úsalos donde quieras



Image 7.1: Graphic detailing the compact dimensions and light weight of the ORICO M20 SSD.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ORICO website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

- **Manufacturer:** SHENZHEN ORICO TECHNOLOGIES CO.,LTD

- **Brand:** ORICO
- **Product ASIN:** B0CPS11X4V

Additional protection plans, such as data recovery services, may be available for purchase separately. Please check with your retailer for details.

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