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> [ORICO AP80F 10Gbps Magnetic M.2 NVMe SSD Enclosure with USB-C Dock Instruction Manual](#)

ORICO AP80F

ORICO AP80F 10Gbps Magnetic M.2 NVMe SSD Enclosure with USB-C Dock

INSTRUCTION MANUAL

1. Introduction

The ORICO AP80F is a versatile 6-in-1 USB-C Magnetic M.2 Docking Station designed to expand the capabilities of your mobile devices and computers. It integrates a high-speed M.2 NVMe SSD enclosure, dual SD/TF card slots, a USB-C 10Gbps data port, a Headset/Mic (USB-C 480Mbps) port, and PD 100W fast charging. This device is ideal for professionals requiring instant ProRes 4K video capture and efficient data management.

6-IN-1 for Magnetic Phones

Portable Magnetic TF/SD Card Reader & M.2 SSD Enclosure

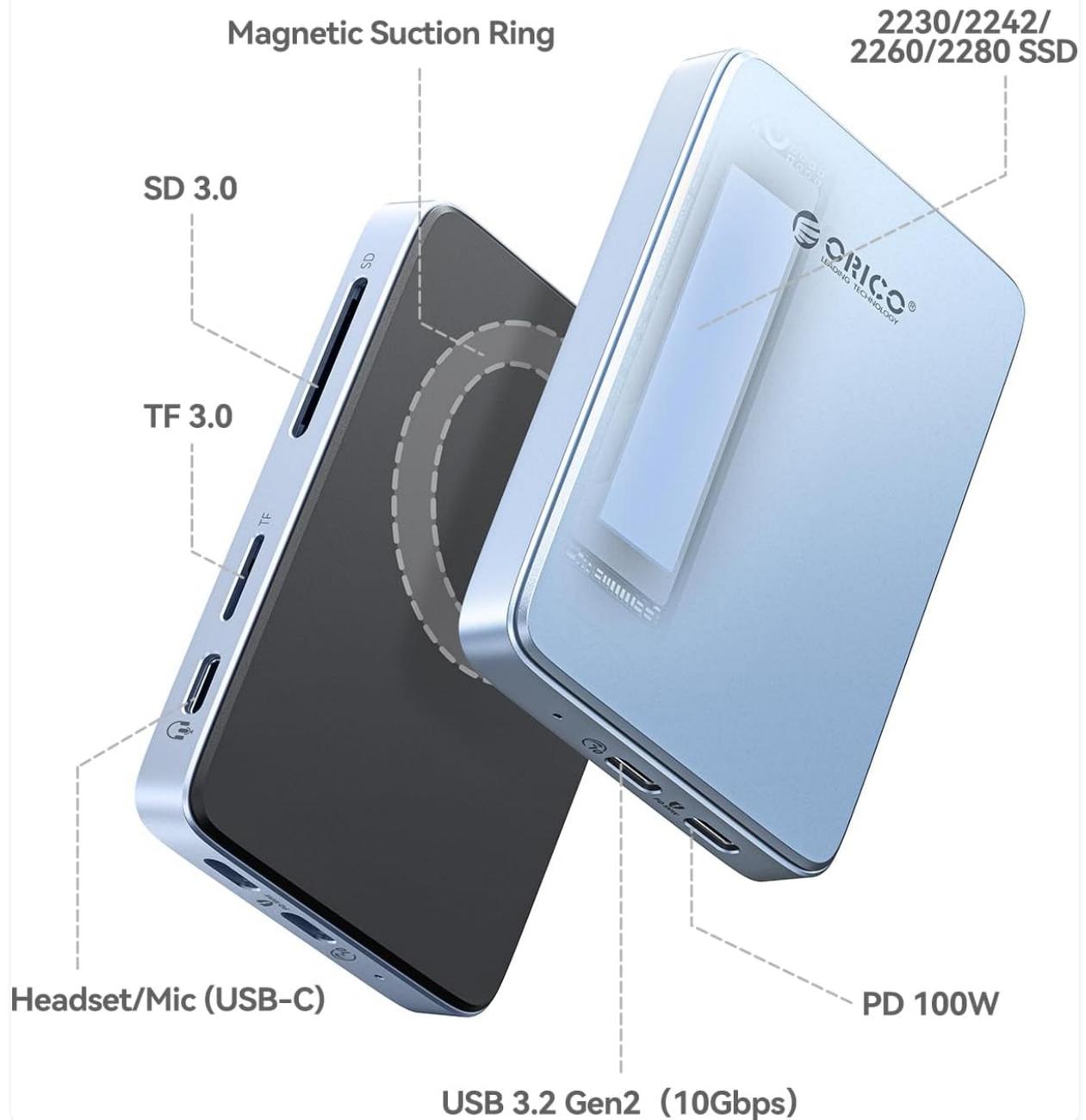


Figure 1: Overview of the ORICO AP80F 6-in-1 Magnetic M.2 NVMe SSD Enclosure with its various ports and magnetic attachment.

2. Package Contents

Please verify that all items are present in the package:

- 1 × Magnetic M.2 NVMe 2230/2242/2260/2280 SSD Enclosure
- 1 × 0.13m C to C Cable
- 1 × Magnetic Ring & 1 × Thermal Silicone Pad
- 1 × Screwdriver
- 2 × Screw
- 1 × User Manual



Figure 2: All components included in the ORICO AP80F product package.

3. Product Features

- **6-in-1 Functionality:** Combines M.2 NVMe SSD enclosure, dual SD/TF card slots (UHS-I compatible, up to 104MB/s read), USB-C 10Gbps data port, USB-C Headset/Mic (480Mbps), and PD 100W fast charging.
- **High-Speed Data Transfer:** Up to 10Gbps (USB 3.2 Gen 2) for rapid file transfers, enabling instant capture and storage of ProRes 4K video.
- **Strong Magnetic Attachment:** Built-in powerful magnetic array compatible with MagSafe for secure attachment to iPhone 15/16/17 Pro/Max/Plus and other magnetic devices/cases.
- **M.2 SSD Universal Compatibility:** Supports full-size NVMe SSDs (2230/2242/2260/2280) up to 4TB. *Note: Only compatible with NVMe protocol, not SATA.*
- **Efficient Heat Dissipation:** Aluminum alloy casing acts as a passive heat sink, complemented by silicone thermal pads, ensuring stable performance during high-load tasks.
- **Direct ProRes Recording:** Enables direct 4K ProRes recording to the SSD with compatible iPhone models, freeing internal storage.

10Gbps High-Speed Transmission with SSD

USB3.2 Gen2, transfer 1GB in 1 second



80GB/81s
one 3A game



20GB/22s
one 4K Ultra HD movie



10GB/10.5s
1000 high-quality songs



5GB/5.6s
1000 JPG images

Test data from ORICO Lab. Actual performance may vary by device

Figure 3: The ORICO AP80F offers 10Gbps high-speed data transmission, transferring 1GB in 1 second.

4. Setup and Installation

4.1. SSD Installation

The ORICO AP80F features a tool-free design for easy SSD installation:

1. Unscrew and remove the bottom cover of the enclosure.
2. Insert your M.2 NVMe SSD (2230/2242/2260/2280) at a 30° angle into the slot.
3. Secure the SSD with the provided screw.
4. Place the thermal silicone pad on top of the SSD for optimal heat dissipation.
5. Close the bottom cover and tighten the screws.



Figure 4: Step-by-step guide for installing an M.2 NVMe SSD into the enclosure.

4.2. Magnetic Attachment

The enclosure features a strong magnetic array for secure attachment:

- For MagSafe-compatible devices (e.g., iPhone 15/16/17 Pro/Max), simply align the enclosure with the back of your device until it snaps into place.
- For non-MagSafe devices or cases, use the provided magnetic ring. Adhere the magnetic ring to the back of your device or case to enable magnetic attachment.

Magnetic Attraction No Need for Hand-Held

Features a built-in structure with 17 strong magnets, stable attraction and adhesion prevent falling off.



Figure 5: The magnetic design allows for secure, hand-held use with compatible devices.

5. Operating Instructions

5.1. Connecting to Devices

Use the provided USB-C to USB-C cable to connect the enclosure to your iPhone (15/16/17 series), iPad, MacBook, Android device, or Windows/Linux computer. The device will be recognized as external storage.

5.2. Data Transfer and Management

- **SSD Data Transfer:** Once connected, you can access the installed M.2 NVMe SSD through your device's file manager (e.g., Files app on iOS/iPadOS). Transfer files at speeds up to 10Gbps.
- **SD/TF Card Management:** Insert SD or Micro SD (TF) cards into the dedicated slots. You can import

photos/videos from cameras directly to your device or the installed SSD.

- **ProRes Recording:** For compatible iPhone models (iPhone 15/16/17 Pro/Max), you can directly record 4K ProRes video to the installed M.2 NVMe SSD, bypassing internal storage limitations.

ProRes 4K 120fps Recording & Direct Save

Support for iPhone ProRes 4K 60/120fps – save directly to



Figure 6: Direct 4K ProRes 60/120fps recording to the SSD is supported by compatible iPhone models.

5.3. PD 100W Fast Charging

The enclosure features a dedicated PD 100W pass-through charging port. Connect a power adapter to this port to simultaneously power the enclosure, charge your connected device (up to 85W PD output), and ensure stable operation for high-capacity SSDs.

100W PD & Headset/Mic (USB-C)



Figure 7: The PD 100W port allows for simultaneous data transfer and fast charging.

5.4. Headset/Mic (USB-C) Port

Utilize the USB-C 480Mbps audio combo port to connect microphones or monitoring headphones for precise recording and real-time audio monitoring. *Note: Real-time headphone audio monitoring is not available during recording; audio can be heard via headphones only during playback.*

6. Compatibility

The ORICO AP80F offers broad compatibility:

- **SSD Protocol:** NVMe (M Key, B+M Key). Not compatible with SATA protocol.
- **SSD Sizes:** 2230, 2242, 2260, 2280.

- **Compatible Devices:** iPhone 15/16/17 Pro/Max/Plus, iPad Pro, MacBook, Android devices, Windows/Linux computers.
- **SD/TF Card Formats:** UHS-I compatible (SD, SDHC, SDXC, Micro SD).

Extensive Compatibility

The infographic is divided into several sections:

- Compatible SSD protocol:** Shows M KEY NVMe / PCIE and B & M KEY NVMe / PCIE protocols.
- Compatible Model (SSD):** Lists models 2230, 2242, 2260, and 2282, each with a blue checkmark icon.
- Compatible Devices (USB-C):** Includes icons for iPhone 15/16/17 series, iPad, Laptop, Android phone, and Desktop.
- Compatible Systems:** Includes icons for Mac OS, iOS, Windows, Linux, and Android.
- MicroSD Card:** Shows three ORICO cards: microSDHC (64GB), microSD (64GB), and microSDXC (256GB).
- SD Card:** Shows five SD cards: SD Card (64GB), SDHC (32GB), SDXC (Ultra 140MB/s 64GB), SDHC (16GB), and SDXC (2GB).
- Headset/Mic (USB-C):** Includes icons for USB-C Earphones, Microphone, and Wireless mic (Insta360).

Figure 8: The enclosure supports a wide range of SSDs, devices, and operating systems.

7. Maintenance

The aluminum alloy casing and included thermal pads are designed for efficient heat dissipation. To ensure optimal performance and longevity:

- Ensure the enclosure's heat sink fins are not obstructed during operation.
- Keep the device clean and free from dust.

- Avoid exposing the device to extreme temperatures or humidity.

8. Troubleshooting

- **SSD Not Recognized / Power Issues:** SSDs with capacities above 2TB may require external power via the PD 100W port to function correctly, especially when connected to smartphones or devices with limited power output.
- **Overheating:** Ensure the heat dissipation fins and any fan openings are not blocked by your hand or other objects during use. Blocked airflow can lead to overheating and reduced performance.
- **SSD Compatibility:** This enclosure is only compatible with NVMe (M Key or B+M Key) SSDs. It will not work with SATA protocol SSDs. Verify your SSD's protocol before installation.
- **Fan Noise:** The device may produce a slight hum from the internal cooling fan during operation. This is normal and generally not distracting unless held very close to the ear.

9. Specifications

Feature	Detail
Brand	ORICO
Model Number	AP80F
Data Transfer Rate	10 Gigabits Per Second (USB 3.2 Gen 2)
Memory Storage Capacity	Up to 4 TB (NVMe SSD)
Compatible SSDs	M.2 NVMe (2230/2242/2260/2280)
SD/TF Card Support	UHS-I compatible (SD, SDHC, SDXC, Micro SD) up to 104MB/s read
Power Delivery	PD 100W (Input), up to 85W (Output)
Headset/Mic Port	USB-C 480Mbps Audio Combo Port
Material	Acrylonitrile Butadiene Styrene (ABS), Aluminum
Item Weight	5.9 ounces
Package Dimensions	5.31 x 4.69 x 0.83 inches

10. Warranty and Support

ORICO products come with a standard manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please refer to the official ORICO website or contact their customer service directly. Keep your purchase receipt for warranty claims.

11. Official Product Videos

ORICO 10Gbps Magnetic M.2 NVMe SSD Enclosure

Your browser does not support the video tag.

This video provides a quick overview of the ORICO 10Gbps

Magnetic M.2 NVMe SSD Enclosure, highlighting its key features and magnetic attachment.

Magnetic NVMe SSD Enclosure AP42

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A short video demonstrating the magnetic features and general use of the AP42 NVMe SSD Enclosure.

ORICO Magnetic M.2 2230/2242 NVMe SSD Enclosure

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This video showcases the ORICO Magnetic M.2 NVMe SSD Enclosure, focusing on its compatibility with various M.2 SSD sizes.

ORICO 10Gbps USB C HUB & M.2 2230 NVMe Enclosure

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A demonstration of the ORICO 10Gbps USB-C Hub and M.2 2230 NVMe Enclosure, highlighting its hub functionalities.