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ORICO AP42F

ORICO AP42F Magnetic Card Reader & M.2 SSD Enclosure User Manual

Model: AP42F | Brand: ORICO

INTRODUCTION

This manual provides detailed instructions for the ORICO AP42F Magnetic Card Reader and M.2 SSD Enclosure. Please read this manual thoroughly before using the product to ensure proper operation and to maximize its features. This device combines a TF/SD 3.0 card reader with an M.2 NVMe SSD enclosure, offering high-speed data transfer and PD 100W charging capabilities, designed for compatibility with various Type-C devices including iPhone 15/16/17 Pro series, iPads, MacBooks, and Android devices.

PRODUCT OVERVIEW

Key Features

- **5-in-1 Functionality:** Combines TF/SD 3.0 card reader and M.2 NVMe SSD enclosure.
- **High-Speed Data Transfer:** USB 3.2 Gen2 interface supporting up to 10Gbps for SSDs and 104MB/s for SD/TF cards.
- **100W Power Delivery (PD):** Supports up to 100W power input and 85W output for simultaneous charging and data transfer.
- **Magnetic Attachment:** Features 17 built-in magnets for secure and stable attachment to compatible devices, especially iPhone Pro models.
- **SSD Compatibility:** Supports M.2 NVMe (M-key) SSDs in 2230 and 2242 form factors.
- **Wide Device Compatibility:** Compatible with iPhone 15/16/17 Pro/Pro Max, iPad Pro, MacBook, Android phones, laptops, and tablets with Type-C ports.

Package Contents

- ORICO Magnetic M.2 NVMe SSD Enclosure
- 0.3m USB-C to USB-C Cable
- Magnetic Ring (for non-magnetic devices)
- Thermal Pad

- Screws
- Screwdriver
- User Manual

Product Diagram

Lecteur de cartes TF/SD Magnétique portable & boîtier SSD M.2



Figure 1: Overview of the ORICO AP42F, showing the TF 3.0 slot, SD 3.0 slot, USB 3.2 Gen2 port, PD 100W port, and magnetic suction ring area. It also indicates compatibility with SSD 2230/2242.

SETUP

Installing an M.2 NVMe SSD

1. Carefully open the SSD enclosure.

2. Insert your M.2 NVMe (M-key) SSD (2230 or 2242 form factor) into the slot. Ensure it is fully seated.
3. Secure the SSD with the provided screw.
4. Apply the thermal pad to the SSD for optimal heat dissipation.
5. Close the enclosure securely.

Note: The SSD is not included and must be purchased separately. For optimal performance and to prevent disconnections, especially with phone USB ports, use SSDs with power consumption of 4.5W or less. For higher power SSDs, external power via the PD port is required.

Attaching to a Device

- For iPhones 15/16/17 Pro/Pro Max, the enclosure can magnetically attach directly to the back of the phone.
- For other devices or non-magnetic phone cases, use the included magnetic ring. Peel off the adhesive backing and attach the ring to the back of your device or case where you intend to mount the enclosure.

Attraction Magnétique – Aucune Maintenance Manuelle Nécessaire

Une structure intégrée avec 17 aimants puissants assure une attraction stable et une adhérence qui empêchent la chute



Inclut un anneau magnétique
d'adaptateur universel



Fixer sur iPhone/Android/PC/Tablette



Figure 2: Demonstrates the magnetic attachment of the enclosure to a smartphone, highlighting the 17 powerful magnets and the optional universal magnetic adapter ring.

OPERATING INSTRUCTIONS

Connecting to Your Device

1. Connect the ORICO AP42F to your host device (iPhone, iPad, MacBook, PC, etc.) using the provided USB-C cable.

2. Ensure the connection is secure. The device should be recognized automatically by your operating system.

Using the M.2 SSD Enclosure

- Once connected, the installed M.2 SSD will appear as an external storage device.
- You can now transfer files to and from the SSD at speeds up to 10Gbps.
- For iPhone 15 Pro series and later, the enclosure supports direct ProRes 4K 60/120fps video recording to the SSD.

Enregistrement ProRes 4K 120fps et Sauvegarde Directe

Prise en charge de l'iPhone ProRes 4K 60/120fps – sauvegarde directe sur le lecteur



*Remarque : Enregistrement et sauvegarde instantanés ProRes HDR 4K/120fps (uniquement iPhone 16/17 Pro/Pro Max)
Enregistrement et sauvegarde instantanés ProRes HDR 4K/60fps (iPhone 15/16/17 Pro/Pro Max)*

Figure 3: Illustrates an iPhone recording ProRes 4K 60/120fps video directly to the connected ORICO AP42F SSD enclosure, enabling direct backup and extended recording.

Transmission Haute Vitesse 10 Gbit/s avec SSD

USB 3.2 Gen2, transfère 1 Go en 1 seconde



80 Go/81 s
un jeu AAA



20 Go/22 s
un film 4K Ultra HD



10 Go/10,5 s
1000 chansons haute qualité



5 Go/5,6 s
1000 images JPG

Données de test du laboratoire ORICO. Les performances réelles peuvent varier selon l'appareil.

Figure 4: Shows the ORICO AP42F connected to a laptop, demonstrating high-speed data transfer up to 10 Gbit/s (1000 MB/s) for various file types.

Using the TF/SD Card Reader

1. Insert your TF (MicroSD) or SD card into the corresponding slot on the enclosure.
2. The card will appear as a separate external drive.
3. Transfer files at speeds up to 104MB/s.

Lecteur de Cartes SD 3.0 Rapide – Jusqu'à 104 Mo/s

Lecture : 104 Mo/s MAX Écriture : 80 Mo/s MAX



Figure 5: Illustrates the SD 3.0 card reader functionality of the ORICO AP42F, showing read speeds up to 104 MB/s, significantly faster than SD 2.0.

Using the PD 100W Charging Port

- Connect a USB-C power adapter (up to 100W) to the PD port on the enclosure.
- This will provide power to both the enclosure and the connected host device (up to 85W output), allowing for simultaneous data transfer and charging.

Charge Rapide PD 100W



Entrée 

 **100W**

Prend en charge jusqu'à 100W d'alimentation PD

Sortie 

 **85W**

Prend en charge jusqu'à 85W de charge PD

Remarque : Cet appareil n'est pas une batterie magnétique et ne prend pas en charge la charge magnétique.

Figure 6: Depicts the ORICO AP42F connected to an iPhone and a 100W PD power source, demonstrating fast charging capabilities while the device is in use.

MAINTENANCE

- Keep the enclosure clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Ensure proper ventilation, especially during extended use, to prevent overheating of the SSD. The thermal pad

helps with this.

- Handle with care to prevent physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not recognized	Loose connection, incompatible SSD, driver issue, SSD not properly installed.	<ul style="list-style-type: none">◦ Ensure the USB-C cable is securely connected to both the enclosure and the host device.◦ Verify that the installed SSD is an M.2 NVMe (M-key) 2230/2242.◦ Check if the SSD is properly seated and secured inside the enclosure.◦ Try connecting to a different USB-C port or another device.◦ For Windows, check Device Manager for any driver issues.
Frequent disconnections during use (especially with phones)	SSD power consumption exceeds phone's USB port limit.	<ul style="list-style-type: none">◦ Connect an external power source (PD charger) to the enclosure's PD port.◦ Consider using an SSD with lower power consumption (4.5W or less) if external power is not feasible.
Slow data transfer speeds	USB port limitation, cable quality, SSD performance, host device limitations.	<ul style="list-style-type: none">◦ Ensure your host device's USB-C port supports USB 3.2 Gen2 (10Gbps).◦ Use the provided high-quality USB-C cable.◦ Verify the performance specifications of your installed SSD.◦ Close other demanding applications on your host device.
Magnetic attachment is weak	Device not magnetic, thick case, incorrect placement of magnetic ring.	<ul style="list-style-type: none">◦ Ensure your device (e.g., iPhone Pro) has a magnetic back or use the provided magnetic ring.◦ If using the magnetic ring, ensure it is securely attached to a clean, flat surface on your device or case.◦ Avoid very thick phone cases that might interfere with magnetic strength.

SPECIFICATIONS

Feature	Detail
Brand	ORICO
Model	AP42F
Material	Aluminum
SSD Compatibility	M.2 NVMe (M-key) 2230/2242
Card Reader	TF 3.0, SD 3.0
Data Transfer Rate (SSD)	Up to 10 Gbps (USB 3.2 Gen2)
Data Transfer Rate (Card Reader)	Up to 104 MB/s
Power Delivery (PD)	Input: 100W, Output: 85W
Compatible Devices	iPhone 15/16/17 Pro/Pro Max, iPad Pro, MacBook, Android phones, Laptops, Tablets (Type-C)
Supported Operating Systems	macOS, iOS, Windows, Linux, Android
Special Feature	Compact, Magnetic Attachment (17 magnets)

Umfassende Kompatibilität



Unterstütztes SSD-Protokoll

M KEY
NVMe / PCIE

Unterstützte SSD-Formate

2242 2230

Kompatible Geräte (USB-C)

iPhone 15/16/17 Serie iPad Laptop Android-Handy Desktop-PC

MicroSD-Karte

microSDHC microSD microSDXC

SD-Karte

SD Card SDHC SDXC SDHC SDXC

Kompatible Systeme

mac OS
Mac OS

iOS
iOS

Windows
Windows

Linux
Linux

Android
Android

Figure 7: Detailed compatibility chart for the ORICO AP42F, showing supported SSD protocols (NVMe M-Key), SSD formats (2242, 2230), compatible devices (iPhone 15/16/17 series, iPad, Laptop, Android Phone, Desktop PC), supported card types (MicroSD, SD), and operating systems (Mac OS, iOS, Windows, Linux, Android).

WARRANTY AND SUPPORT

ORICO products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official ORICO website for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or inquiries about your product, please contact ORICO customer

service through their official website or the retailer where you purchased the product. Keep your purchase receipt and product model number (AP42F) handy when contacting support.

Online Resources:

- [ORICO Official Store on Amazon](#)
- (Refer to official ORICO website for direct support contact information)

