🌐 www.vinpowerdigital.com

✉ sales@vinpowerdigital.com

English     繁體中文     日本語     ESPAÑOL

**VINPOWER DIGITAL**
The Future of Digital Storage ®

## Phone Drive and Secure Phone SSD Solution

English

Most Innovative Consumer Application    Best of Show ★★★★★    CES INNOVATION AWARDS 2024    TAIWAN EXCELLENCE 2025    TAIWAN EXCELLENCE 2026

**Innovation**

**Quality**

**Longevity**

## About Vinpower Digital

*Calvin Chang*
CEO

Founded in 2001, Vinpower Digital is an award-winning developer specializing in digital storage hardware, cross-platform power & storage solutions, plus mobile applications. Our expertise lies in customized storage IC design, allowing us to optimize performance, enhance power efficiency, and ensure seamless system integration for various applications.

# Vinpower Digital's Core Value
# — From Design to Production

At Vinpower Digital, we provide OEM and ODM services focused on storage technology, helping clients bring high-performance, reliable, and secure storage solutions to market efficiently.

Whether developing a fully customized product or modifying an existing design, our expertise in customizing storage ICs, PCB design, firmware, APP, and system integration ensures seamless performance tailored to specific needs.
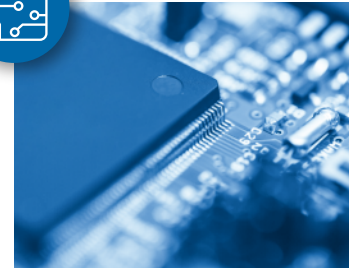


## Custom Storage IC & PCB Design

- We design specialized storage ICs and circuit boards, optimizing data transfer speed, power efficiency, and reliability.

- Our engineering team works closely with clients to create scalable, high-performance storage solutions for diverse applications.

## Firmware, Software & System Integration

- We develop customized firmware & software, enabling cross-platform solutions for iOS, Android, Windows, and Mac, ensuring seamless data storage integration.

- Our expertise in full-system integration enhances data security, compatibility, and efficiency across all platforms.
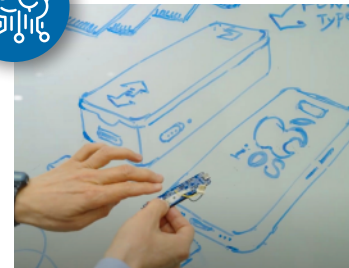
## Industry-Specific Customization

- We specialize in storage solutions for consumer electronics and industrial applications.

- Our products comply with global industry standards and certifications, ensuring quality and reliability.
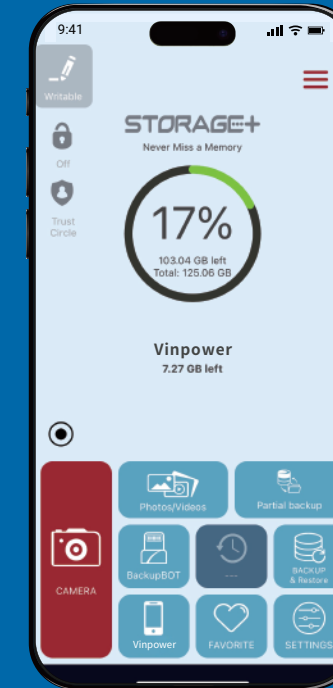
# OTG APP Development

Vinpower developed and offers an array of iOS and Android APP options for use with external flash or SSD embedded devices. We offer a standard design and functionalities, OEM a branded solution, or ODM a customized solution.
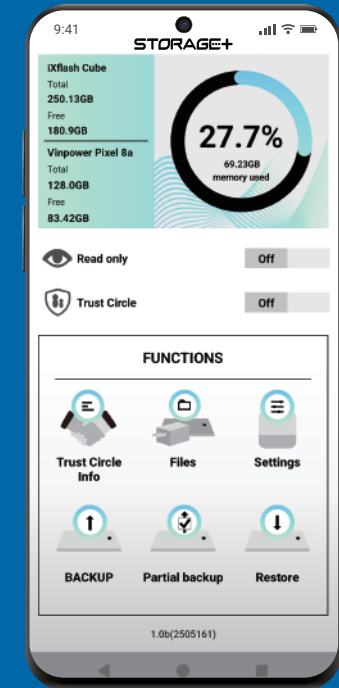
iOS

Android

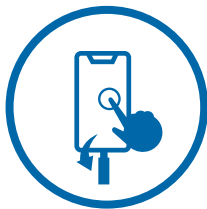Specialized App available for both Android and Apple iOS devices.

# OTG APP Features

**Backup**
Hassle Free Operation

**Read Only**
Prevent Risk of Exposure

**iOS**
iPhone / iPad

**Android**

**Entertainment**
Storage and Playback for Music and Movies
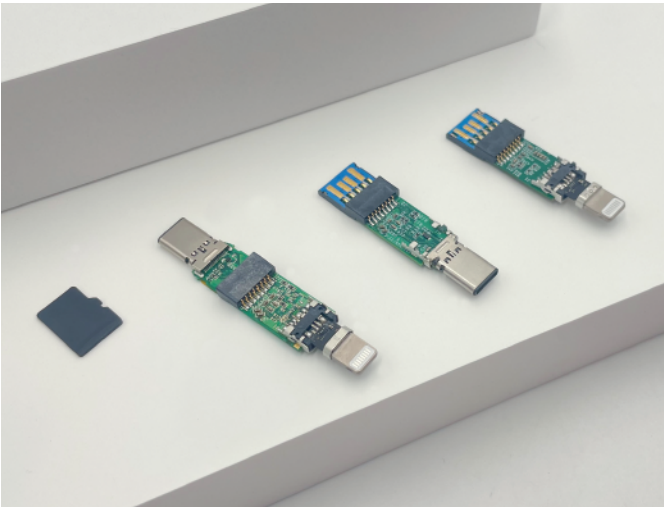
**File Management**
Organizes all your documents and folders

**Live Recording**
Record Directly to OTG Device

**Trust Circle**
Data Security

## Key Benefits of OTG APP

# OTG USB 3 Thumb Drive



**iOS** iPhone / iPad — **Mac** — **Android** — **Windows** — **Chromebook**

## USB-A & Lightning, USB-C & Lightning, USB-A & USB-C

**Supports:** Lightning — USB-C — USB-A
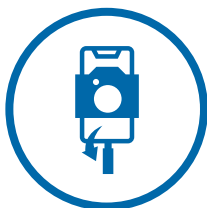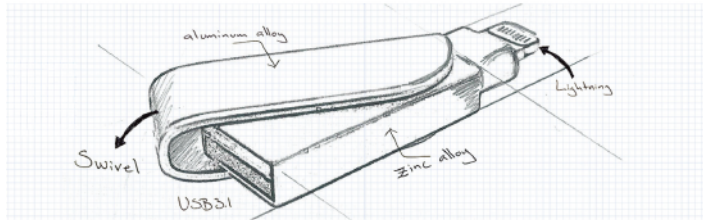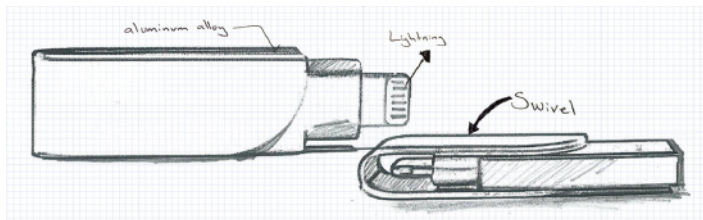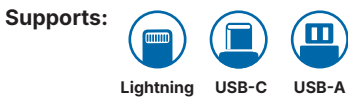


Our OTG Thumb Drive is the Swiss Army Knife of flash drives, offering the ability to perform an auto-backup, restore content, live video recording, file transfer between other devices, watch movies or listen to music (without Wi-Fi), and keeps all content in organized folders. Plus, it's secure and compact, making it perfect for On The Go.


Metal

USB-C — USB-A — USB-A — Lightning — USB-C — Lightning


Color

Made for  iPhone | iPad
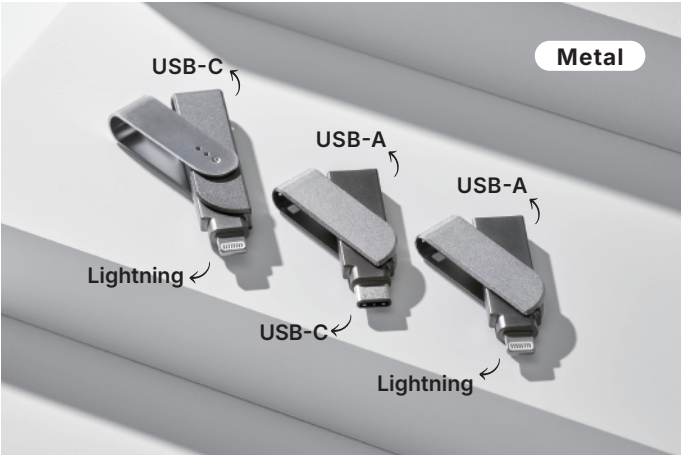

iVP309

| Integrated IC | iVP309 |
|---|---|
| File Format | FAT32, exFAT |
| Protocol | Support iAP2, MSC |
| Connection | USB-A & Lightning<br>USB-C & Lightning<br>USB-A & USB-C |
| Capacity | 32GB – 2TB |
| USB Interface | USB 3.2 Gen 1 |
| Compatible Mobile Device(s) | iPhone, iPad, Android devices |
| Compatible Computer Device(s) | PC, Mac, Chromebook |

# OTG USB 3 Backup Cube

## USB-A & USB-C

**Supports:**

Lightning    USB-C    USB-A

**Automatic backup every time a smartphone or tablet is charging, including iPhone & iPad. Easy to use for anyone, young and old.**



USB
TYPE C
& TYPE A

USB 3.2 Gen1
Type-C with PD

USB 3.2 Gen1
Type-A

Made for
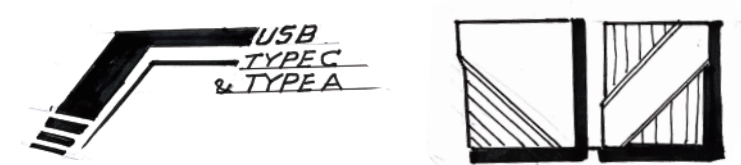iPhone | iPad

iVP309

| Integrated IC | iVP309，VPD6150 |
|---|---|
| Connection | USB-A Male & USB-A Female<br>USB-C Male & USB-C Female |
| Capacity | 128GB – 2TB |
| USB Interface | USB 3.2 Gen 1 |
| Compatible Mobile Device(s) | iPhone, iPad, Android devices |
| Compatible Computer Device(s) | PC, Mac, Chromebook |
| Charging Capability | USB-C supports PD 60W fast charging(Max 3A) |

# OTG USB 3 Card Reader with Backup APP

**iOS**
iPhone / iPad | Mac | Android | Windows | Chromebook

## Expandable Memory

**Supports:**
Lightning | USB-C | USB-A

Perfect low-cost do-it-all OTG solution.  Provides all the benefits of our full line of OTG products, but offers greater flexibility by allowing the user to select the memory size they want.  Upgrade the memory as needed.



micro SD card slot

USB-C Male
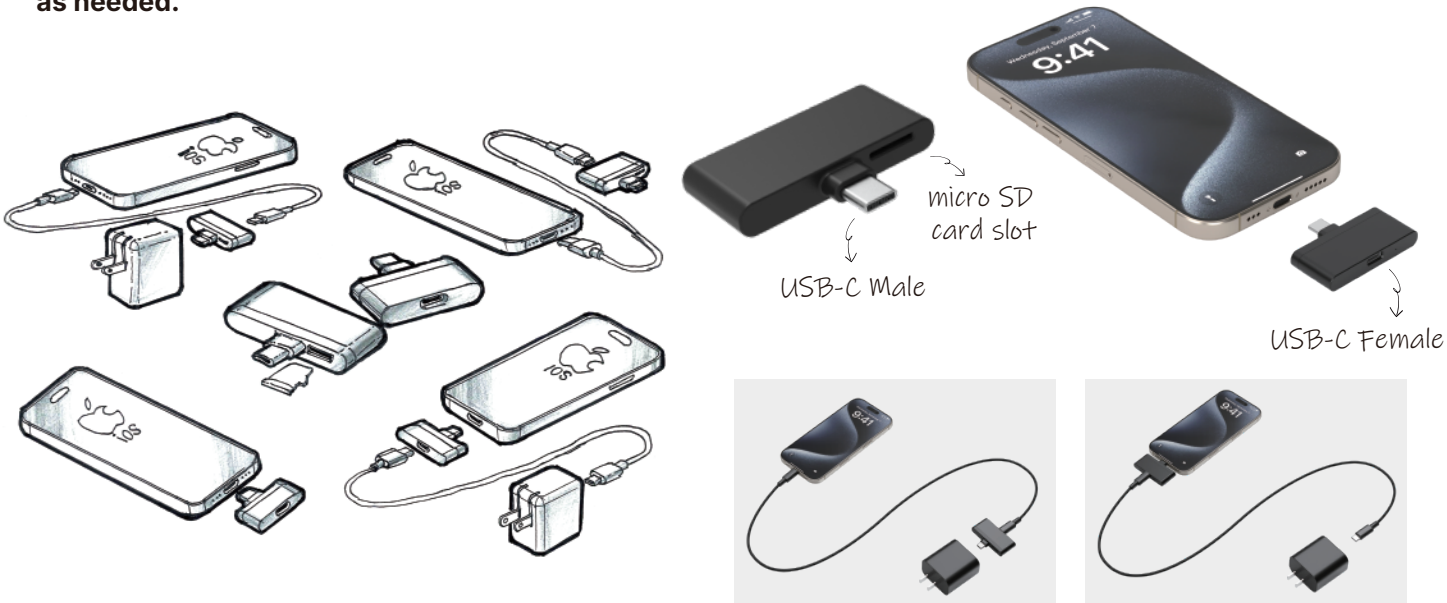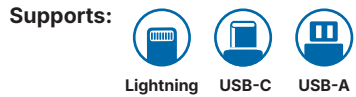
USB-C Female

**TAIWAN EXCELLENCE 2026**

Made for **iPhone | iPad**



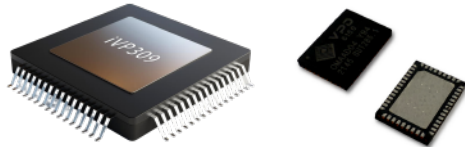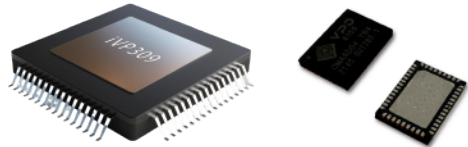| Integrated IC | iVP309，VPD6150 |
|---|---|
| Connection | USB-C Male & USB-C Female |
| Capacity | 128GB – 2TB |
| USB Interface | USB 3.2 Gen 1 |
| Compatible Mobile Device(s) | iPhone, iPad, Android devices |
| Compatible Computer Device(s) | PC, Mac, Chromebook |
| Charging Capability | USB-C supports PD 60W fast charging(Max 3A) |

## Multiple connection options, directly to the device or via a cable, along with Fast Charging capability.

**Key Benefits**

- **Effortless Backup**
  Auto-transfer data from your smartphone with or without a cable

- **Charge & Backup Simultaneously**
  Keep your device powered while securing your data

- **Expandable Storage**
  Swap out the memory card for unlimited backup capacity

- **Versatile Connectivity**
  4 connection modes include direct plug-in or thru a USB-C to USB-C / Lightning cables

*MicroSD memory card not included

# OTG Micro USB C Card Reader with Backup App
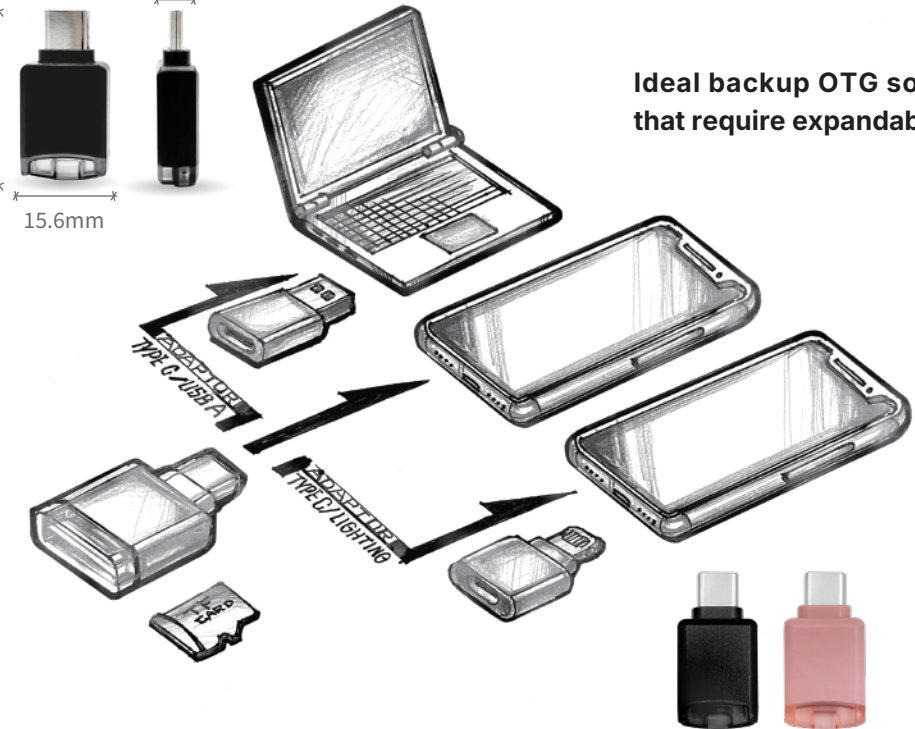
## Tiny Size, Expandable Capacity

**Supports:**

Lightning | USB-C | USB-A

7.4mm

30.75 mm

15.6mm

Made for **iPhone | iPad**

iVP309

Ideal backup OTG solution for all portable electronics that require expandable memory and backup capabilities.

With its small footprint, low cost, and ability to swap MicroSD cards when needed, it provides the perfect solution for the masses.

| Integrated IC | iVP309 |
|---|---|
| File Format | FAT32, exFAT |
| Protocol | Support iAP2, MSC |
| Connection | USB-C |
| Capacity | 32GB – 2TB |
| USB Interface | USB 3.2 Gen 1 |
| Compatible Mobile Device(s) | iPhone, iPad, Android devices |
| Compatible Computer Device(s) | PC, Mac, Chromebook |

## Features

- **Automatic Backup**
  Automatically backup photos and videos from your smartphone / tablet when connected

- **Live Video Recording**
  Easily take long form videos that doesn't use any memory from your device

- **Unlimited Storage**
  Able to swap out MicroSD cards for expanded storage capability

- **Expanded Compatibility**
  As a MicroSD card reader, allows user to view MicroSD card from drones and other devices through your smartphone or any device with a USB-C connection

# OTG Combo Charger & HDD

## Simplify your Life - 1 device for all!



**iOS** iPhone / iPad

**Mac**

**Android**

**Windows**

**Chromebook**

Most Innovative Consumer Application

Best of Show

CES INNOVATION AWARDS 2024

TAIWAN EXCELLENCE 2025

AC PIN

TYPE-C
• CHARGING
• HARD DRIVE

iOS

**35W**

**65W**

**140W**

9:41

STORAGE+
Never Miss a Memory

17%
103.04 GB left
Total: 125.06 GB

Vinpower
7.27 GB left

Photos/Videos

Partial backup

BackupBOT
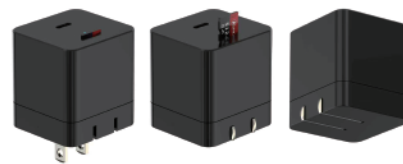
BACKUP & Restore

CAMERA

Vinpower

FAVORITE

SETTINGS
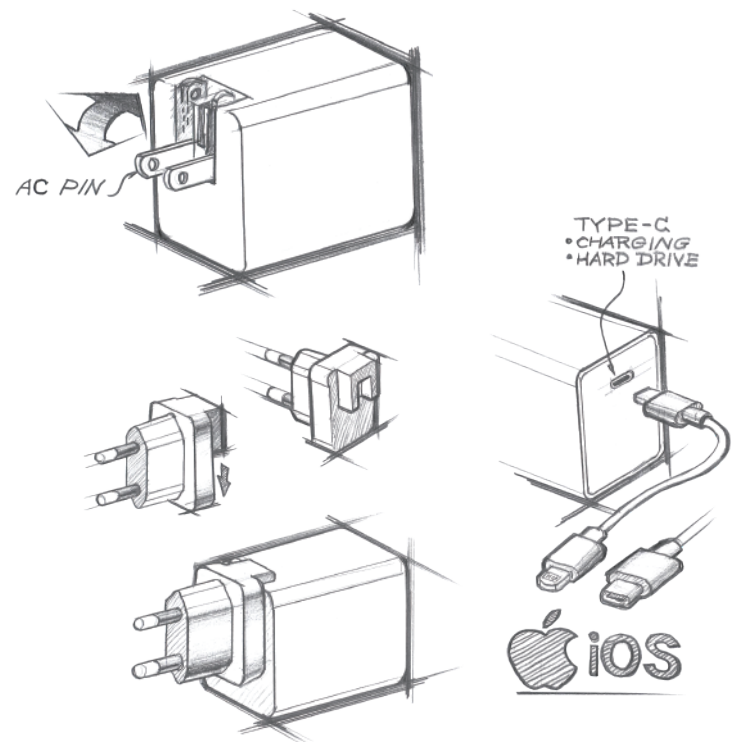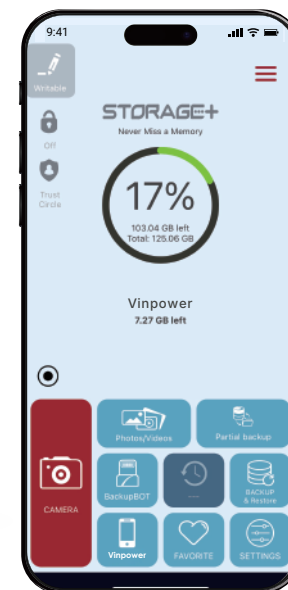
**First of its kind combination charger, available in 35W, 65W, and 140W, that offers up to 2TB of internal data storage memory. Replaces all individual chargers and external memory for nearly all iOS and Android smartphones and tablets, as well as Windows, Mac & Chromebook laptop computers.**

- **Automatic Backup Capability**

- **Compact and Lightweight**

- **AES 256 Secure Data Protection**

- **Universal Compatibility**

- **Available with international connections for global use**
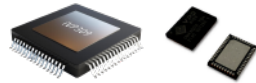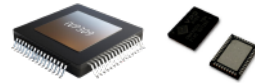
| Integrated IC | **140W** iVP309，VPD6150 | **65W** iVP309，VPD6150 | **35W** iVP309 |
|---|---|---|---|
| Dimension (L x W x H) | 85 x 82 x 31 mm | 57.2 x 41.8 x 48.3 mm | 40.2 x 44.2 x 49.8 mm |
| Weight | 382g (US plug) | 140g (US plug) | 65g (US plug) |
| Input Voltage | 90Vac – 264Vac | 90Vac – 264Vac | 90Vac – 264Vac |
| Output Voltage | Single O/P: 5V, 9V, 12V, 15V, 20V, 28V (C2 only) Dual O/P: 5V, 9V, 12V, 15V, 20V, with PPS & AVS | 5V, 9V, 12V, 15V, 20V | 5V, 9V, 12V, 15V, 20V |
| Output Connector | 1 x USB-C 3.2 Gen 1 1 x USB-C charging only | 1 x USB-C 3.2 Gen1 Data & Charging | 1 x USB-C 3.2 Gen1 Data & Charging |
| Safety | IEC 62368-1, UL 62368-1, EN 62368-1 | IEC 62368-1, UL 62368-1, EN 62368-1 | IEC 62368-1, UL 62368-1, EN 62368-1 |
| Capacity | 128GB – 2TB | 128GB – 2TB | 128GB – 2TB |
| Compatible Mobile Devices | iPhone, iPad, Android devices | iPhone, iPad, Android devices | iPhone, iPad, Android devices |
| Compatible Computer Operating Systems | PC, Mac, Chromebook | PC, Mac, Chromebook | PC, Mac, Chromebook |
| Charging Capability | Support PD 140W fast charging (Max 5A) | Support PD 65W fast charging (Max 3.25A) | Support PD 35W fast charging (Max 3A) |

**35W OTG Combo Charger & HDD with Expandable Memory**
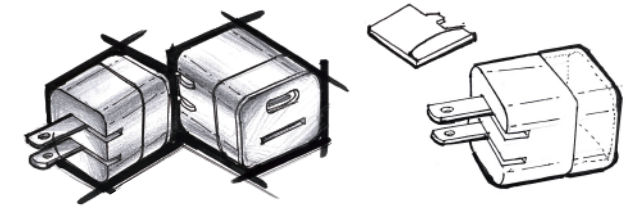
# iOS & Android PSSD with APP Support

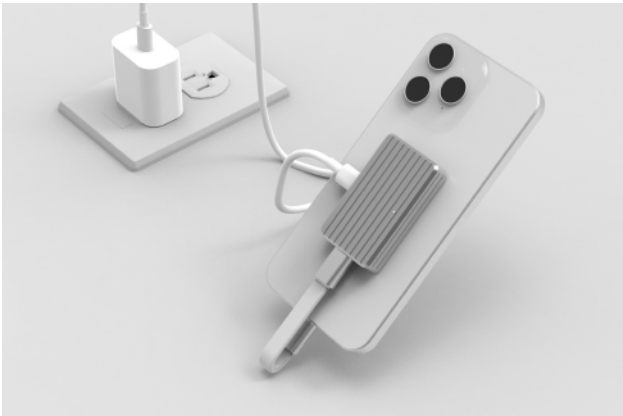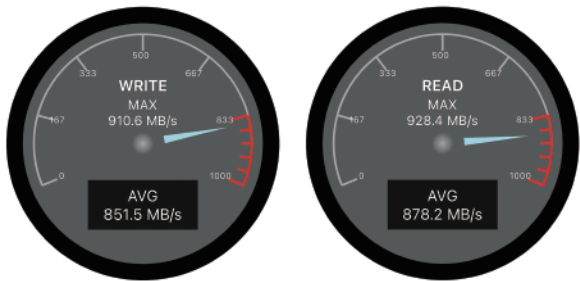## First of Its Kind: Secure, Low Power, High-Speed, Fast Charging

The power of an SSD with a compact portable housing that provides backup and storage across all computing platforms, including nearly all iOS and Android smartphones and tablets, as well as Windows, Mac & Chromebook laptop computers.

Compatible with all NVMe configurations and available as Bus Powered or connected through a USB cable with PD fast charging capability up to 140W.

**Supports 2230/2242 SSD**

**Supports 2260/2280 SSD**

WRITE MAX 910.6 MB/s — AVG 851.5 MB/s

READ MAX 928.4 MB/s — AVG 878.2 MB/s

Supports: Lightning | USB-C | USB-A

**Read/Write MB/s**

TAIWAN EXCELLENCE 2026

Made for iPhone | iPad

iVP817

| Integrated IC | iVP817，VPD6150 (optional) |
|---|---|
| Connection | USB-C*2 |
| Capacity | 128GB - 16TB |
| USB Interface | USB 3.2 Gen2 (10Gbps) |
| Power & Data | Supported on both USB-C ports(Dual-role) |
| Compatible Mobile Device(s) | iPhone, iPad, Android devices |
| Compatible Computer Device(s) | PC, Mac, Chromebook |
| Charging Capability | Support up to PD 140W fast charging |

# Flash / SSD Testing & Duplication Technology

Flash and SSD storage are unregulated and inconsistent. We developed the technology that allows our Flash and SSD duplicators to test USB, SD/MicroSD, and SSD quality, true capacity, and reliability for each and every drive.

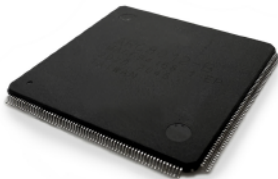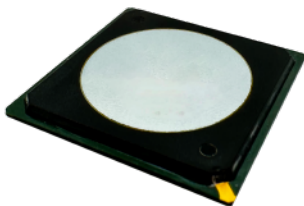**ATP8624**

4 Port SATA IC

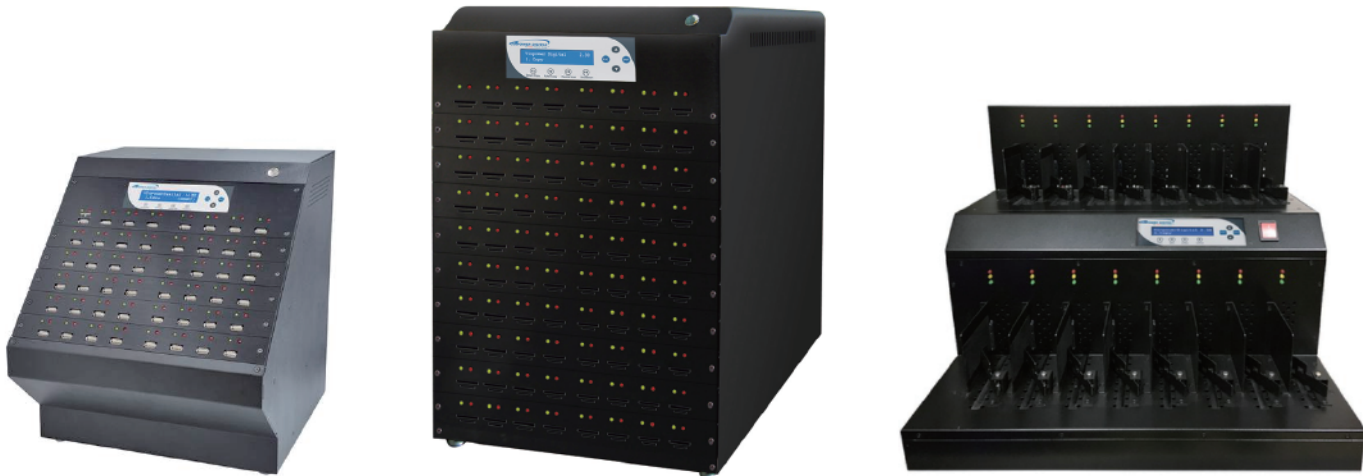**ARC8012B1**

32bit RISC CPU

**ARC8012S0/S4/S8 A**

32bit RISC CPU with SATA and Daisy Chain Support

# Flash / SSD Testing & Duplication Hardware

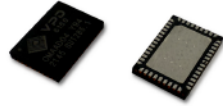Available in varying sizes of USB, SD/MicroSD, or HDD/SSD configurations

# Proprietary IC Series

| Model | iVP817 |
|---|---|
| Package | QFN64 8x8 |
| USB Interface | USB Type C 3.2 Gen 2 X1 10G |
| M.2 Interface | NVMe Gen 3 X2 16G |
| NCQ/TRIM Support | YES |
| BOT/UASP mode | YES |
| Work with PD | YES |
| Security Keylock | Support |
| GPIO | YES support PWM |
| iAP2 | YES |
| I2C | Master |
| iSP FW upgrade | YES |
| UART | YES |

| Model | iVP309 |
|---|---|
| Package | QFN52 6x6 |
| USB Interface 1 | USB Type C 3.2 Gen 1 x1 5G |
| USB Interface 2 | USB Type C 3.2 Gen 1 x1 5G |
| SD Interface | SD 3.0 UHS-I, SDXC up to 2TB |
| TRIM Support | YES |
| BOT mode | YES |
| Work with PD | YES |
| Security Keylock | Support |
| GPIO | YES |
| iAP2 | YES |
| I2C | Master |
| iSP FW upgrade | YES |
| Spread Spectrum Clock for SD | YES |
| UART | YES |

| Model | VPD6150 |
|---|---|
| Package | QFN64 8x8 |
| PD Port 1 | PD 3.1 function |
| PD Port 2 | PD 3.1 function |
| CC Logic | 2 Sets |
| PD support | Sink/Source/DRP |
| PPS/AVS support | YES |
| Protection | OVP/OCP/OTP |
| GPIO | YES |
| I2C | Slave |
| iSP FW upgrade | YES |
| Charge through | YES |
| Power Capacity | Support up to 28V 5A (140W) |

| Model | ATP8624 |
|---|---|
| Package | TQFP128 14x14 |
| SATA Interface | 4-CH Gen1 1.5G |
| NCQ/TRIM Support | YES |
| UART | YES |
| Interrupt Controller | YES |
| Enhanced AHCI | YES |
| DAC support | YES |
| GPIO | YES |

| Model | ARC8012B1 |
|---|---|
| Package | LQFP256 28x28 |
| CPU | 32 bit RISC 140Mhz |
| Timer | two 32 bit |
| UART | three 8 bit |
| Interrupt Controller | YES |
| DMA engine | Support |
| GPIO | YES |
| I2C | YES |
| MemoryController | SDRAM |
| Watch Dog | one 32 bit |

| Model | ARC8012S0/S4/S8 A |
|---|---|
| Package | BGA600 31x31 |
| CPU | 32 bit RISC 140Mhz |
| Timer | two 32 bit |
| UART | three 8 bit |
| Interrupt Controller | YES |
| DMA engine | Support |
| GPIO | YES |
| 4 port SATA Bridge | S4 X1, S8 x2 |
| I2C | YES |
| MemoryController | SDRAM |
| Watch Dog | one 32 bit |
| Daisy Chain Support | YES |
| DSU support | YES |
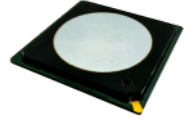
# OEM / ODM Workflow Process



**Requirement Analysis**

**Product Design (EE & ID)**

**Hardware & Software Development**

**Prototyping & Testing**

**Certification & Validation**

**Mass Production**

- Understand customer needs
- Define product spec.

- IC & PCB circuit design
- Industrial design & Mechanical structure

- FW & System Software integration
- App development (iOS/Android)

- Sample production & functional validation
- Compliance testing & debugging

- MFi certification (if applicable)
- Industry compliance (FCC, CE, etc)

Manufacturing & QC

# Your Vision, Our Innovation

Vinpower Digital's proprietary storage IC technology and cutting-edge product solutions provide flexibility, reliability, and performance. With long standing expertise in OEM/ODM services, we are ready to bring your ideas to life. From custom storage solutions to intelligent charging systems, our team ensures that every product is designed to meet your specific needs.

With over two decades of experience and a commitment to excellence, we are your trusted partner for delivering innovative, high-quality products.

**Let's start your project today! Contact us now**

🌐 **www.vinpowerdigital.com**

✉ **sales@vinpowerdigital.com**