

Gaming Handhelds

Collection of gaming handhelds I own — purchase history, mods, accessories, and notes.

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Steam Deck

Valve Steam Deck 512GB (later upgraded to 1TB NVMe). Optimized via Claude Code.

Overview

Device

Detail	Info
Model	Steam Deck 512GB
Purchased	Sep 5, 2022
Source	Steam Store (reservation system)
Current Storage	1TB (upgraded from 64GB with Sabrent 2230 M.2 NVMe Gen 4)

Upgrades

- **1TB NVMe SSD:** Sabrent 2230 M.2 NVMe Gen 4 1TB — ordered from Amazon.de (Order #302-3993928-0073935), Jul 7, 2023. See dedicated page for the upgrade walkthrough.

Software

- Optimized via Claude Code — there is a dedicated Claude skill for downloading games and managing the device.

Purchase Emails

- **Reservation:** `noreply@steampowered.com` — "Please confirm your Purchase Information for Steam Deck 512 GB", Sep 5, 2022
- **NVMe SSD:** `bestellbestaetigung@amazon.de` — Order #302-3993928-0073935, Jul 7, 2023

Upgrading my 64GB Steam Deck with a 1TB NVMe SSD

The need for more storage space on the Steam Deck seems to be a universal issue. I've found myself in the same boat after getting my hands on a 64GB model during the Steam Summer Sale. With just a few games installed (Hades, Disco Elysium, and Hollow Knight), I found myself hitting the storage limit. I decided it was high time for an upgrade.

Step 1: Preparing for the Upgrade

I ordered a Sabrent 2230 M.2 NVMe Gen 4 1TB drive from Amazon. If you're in the same boat and need to expand your storage, here's how I navigated the process.

Before you get started, make sure you have a prying tool - a guitar pick or something similar would do. I used a prying tool from an iFixIt kit I had on hand. It's also essential to have a compatible screwdriver for the backplate screws.

Step 2: Opening the Steam Deck

Once the new drive arrived, I started by removing the 8 screws from the back plate of the Steam Deck. Prying it open was the next challenge. The best place to start is from the top, near the right bumper (R1). Trust me on this one; I learned the hard way and caused some minor cosmetic damage by trying from the bottom and left sides.

Once you've pried the top open, the rest comes apart pretty easily. Remember to disconnect the battery and press the power button multiple times to ensure all capacitors are drained. This will help to prevent any potential damage to the device or the drive.

Step 3: Installing the New Drive

There was another minor hiccup here. The electronic shielding on the old eMMC drive didn't fit on the new Sabrent drive due to the heat plate with branding. To resolve this, I slightly tore off the end, which was attached with adhesive, and wrapped the new drive with it. Then, it was just a matter of putting everything back together.

Step 4: Preparing the Recovery Flash Drive

Next up, you'll need to prepare a recovery flash drive. I used Rufus for this and downloaded the 2GB recovery image from the Steam website. I encountered an issue here as the Rufus website was down, so I downloaded it from SourceForge.net instead. The image was written to the flash drive in about 10 minutes.

Step 5: Booting into Recovery Mode

Booting the Steam Deck into recovery mode can be a little tricky. Make sure you press the power button and keep the volume down button pressed until you hear the startup sound. Then release the power button.

At this point, I experienced a slight hiccup. My flash drive wasn't recognized in any of the boot options. I think I might have accidentally flashed it in MBR instead of GPT. Using another, albeit slower, flash drive fixed the problem. It took around 15-20 minutes due to the slower drive speed.

The Steam Deck controls didn't work in the recovery OS, so I had to use the touchscreen. The process took quite a while, approximately 40 minutes, due to the slow flash drive speed.

Step 6: Restarting the Deck and Finalizing Setup

After the recovery process was complete, I restarted the Deck. The presence of the Steam Deck logo confirmed that the device was booting up from the drive. I was greeted with the setup screen next.

Interestingly, the Steam Deck's controls didn't work initially, but the touchscreen did. After going through the setup process and connecting to the internet for updates, the controls started working perfectly.

Conclusion

And voila! My Steam Deck was upgraded successfully to 1TB storage, and everything runs flawlessly and fast. This has allowed me to install much larger games such as Witcher III and even test out Diablo IV. The process may be slightly tedious, but it's well worth it for the extra space. I'm already thinking about the potential of adding a memory card, but that might be a project for another day once I get through my current gaming backlog.

AYN Odin

AYN Odin 1 Pro and Odin 3 — Android gaming handhelds from AYN Technologies.

Overview

Devices Owned

Model	Purchased	Source	Details
AYN Odin Pro (Odin 1)	Aug 20, 2021	Indiegogo (Contribution #617)	Super Early Bird — Qualcomm SD845, 8GB LPDDR4x, 128GB UFS 2.1
AYN Odin 3	Jan 17, 2026	AYN Store (Order #OD1416888)	Batch 3 Pre-order. Shipped Feb 6, 2026 via YunExpress.

Notes

- The Odin 1 was backed via the original Indiegogo campaign for "Odin: The Ultimate Gaming Handheld."
- An Odin2 Portal was also backed on Indiegogo (Contribution #1310, Oct 23, 2024 — Super Fan Odin2 Portal Max 16+1TB variant) but a refund was requested on Dec 11, 2024.
- The Odin 3 was ordered from the AYN direct store (ayntec.com).

Purchase Emails

- **Odin 1:** Indiegogo contribution receipt — noreply@indiegogo.com, Aug 20, 2021
- **Odin 3:** AYN order confirmation — store+57032147136@t.shopifyemail.com, Jan 17, 2026

(New) Nintendo 3DS

New Nintendo 3DS with USB charging cable mod.

(New) Nintendo 3DS

Overview

Device

Detail	Info
Model	New Nintendo 3DS
Purchase Receipt	Not found in Gmail (likely bought in-store or on a different account)

Accessories

- **USB Charging Cable:** OcioDual USB Charger Cable 1.2m (USB-A to 3DS) — ordered from Amazon.de (Order #306-5929882-8741930), Feb 28, 2023. Replaces the proprietary charger with a standard USB-A cable.

Purchase Emails

- **USB cable:** `bestellbestaetigung@amazon.de` — Order #306-5929882-8741930, Feb 28, 2023

Playstation Vita

PlayStation Vita — jailbroken with Henkaku, runs PSVita/PSP/PSX games.

Overview

Device

Detail	Info
Model	PlayStation Vita
Purchase Receipt	Not found in Gmail (likely bought in-store or on a different account)
Status	Jailbroken

Jailbreak & Homebrew

- Running **Henkaku** custom firmware.
- Can install and play:
 - PS Vita games (free)
 - PSP games
 - PS1 (PSX) games

Accessories

- **SD2Vita Adapter:** Purchased from Carousell seller *sgdigitalpros* in Singapore, Nov 23, 2021 (SGD \$7.50 via PayLah). Supports up to 256GB microSD, replacing the proprietary (and expensive) PS Vita memory card.

Purchase Emails

- **SD2Vita adapter:** Carousell messages from `sgdigitalpros`, Nov 23–26, 2021
- **PS Plus / PSN gift cards:** Multiple Amazon.com digital purchases (2017) — \$10, \$20, \$50, \$60 PlayStation Store gift cards, and a 1-year PS Plus membership (Nov 4, 2017)

Miyoo Mini

Miyoo Mini — retro emulation handheld running Onion OS.

Overview

Device

Detail	Info
Model	Miyoo Mini
Purchase Receipt	Not found in Gmail (likely purchased from AliExpress on a different email, or a marketplace purchase)

Custom Firmware

- Running **Onion OS** — a custom operating system for the Miyoo Mini that replaces the stock firmware.
- Onion OS provides a cleaner UI, better emulator performance, and additional features like RetroArch integration.

Odroid

Odroid handheld — model TBD. Manufactured by Hardkernel.

Overview

Device

Detail	Info
Model	Odroid handheld (exact model unknown — likely Odroid Go Advance or Odroid Go Super)
Manufacturer	Hardkernel
Purchase Receipt	Not found in Gmail. Hardkernel account registered May 26, 2020 (<code>hardkernel.robot@gmail.com</code>).

Notes

- This is a handheld form-factor Odroid device, used for retro emulation.
- Hardkernel's handheld lineup includes the Odroid Go, Odroid Go Advance, and Odroid Go Super — the exact model needs to be verified by checking the physical device.

Nintendo Switch

Switch Lite, Switch 1 (LCD model), and Switch 2.

Overview

Devices Owned

Model	Purchase Receipt	Notes
Nintendo Switch Lite	Not found in Gmail	
Nintendo Switch 1 (LCD model)	Not found in Gmail	Original Switch with LCD screen (not OLED)
Nintendo Switch 2	Not found in Gmail	Latest generation

Accessories

- **Belkin Gaming Nintendo accessory:** Ordered from Amazon.de, Nov 19, 2025

Games (from email receipts)

Game	Source	Date
Runbow	Nintendo eShop (digital)	Aug 2, 2025
Pokémon Legends: Z-A	Amazon.de	Nov 16, 2025
Final Fantasy VII Remake	Amazon.de	Jan 13, 2026
Pokémon Pokopia	Amazon.de (Switch 2 exclusive)	Mar 21, 2026

Notes

- Nintendo account is active and linked — receiving marketing emails in Spanish from Nintendo.
- Hardware purchase receipts not found in Gmail — devices may have been bought in physical retail stores or on a different email account.