



# Simple battery expansion

:Komplete Kontrol?????Battery 4?Expansion????????????????????????????????  
:Expansion?????????DAW?????????????????????Battery 4?????????Battery 4? ...

Simple extra battery for the expansion bay. Framework Laptop 16. Aaron\_Baff February 7, 2024, 11:01pm 90. So found the Expansion Bay Specs thread, had a question on it, around this Expansion Bay Developer Program - #9 by Aaron\_Baff. Term\_Grecos February 8, 2024, 7:37am 91. Ideally you would want a hot swappable system that gets screwed in as ...

We could end up having Framework 16s that have very power efficient APUs with substantial 1440p gaming chops by the very end of 2024 or mid-2025 thus freeing up the expansion bay for a 65-70% battery extension ...

Would love the expansion bay to house an extra/more battery. I have a Framework 13 and the battery is okay at best and terrible at worst. I wouldn't mind the extra weight if I didn't have to carry around a charger as well. Hope to see some cool new expansion modules for the FW16 by the end of 2024.

Simple extra battery for the expansion bay Framework Laptop 16. Battery Pack Version 2 [Battery\_modual\_back] Improvements: 17.76Wh battery 66.5mm x 132mm x 9.7mm LED battery indicator at the back Housing and case are two separate pieces for ease of assembly and repair less complex thumb grip for ease of pulling in and out of slot ...

Simple extra battery for the expansion bay. Framework Laptop 16. Adrian\_Joachim February 7, 2024, 6:59am 77. Blacksmith12: The stock slot (covered by a backplate by default) only gives me 5x57x110 mm of space to fit battery cells, charging, balancing, and USB protocol logic.

Simple extra battery for the expansion bay Framework Laptop 16. Battery Pack Version 2 [Battery\_modual\_back] Improvements: 17.76Wh battery 66.5mm x 132mm x 9.7mm LED battery indicator at the back Housing and case are two separate pieces for ease of assembly and repair less complex thumb grip for ease of pulling in and out of slot ...

Here's hoping for larger capacity main battery, but a 45-61Wh expansion bay battery for a potential grand total of 130-154.5Wh would be sick AF. Would totally have to pack the expansion bay battery in a convenient corner inside a carry-on luggage to pass airport security though before slotting it into the laptop mid-flight...at least until ...

Sometimes, yes. You can challenge criminal charges in battery cases with a legal defense. This is true for both misdemeanor battery cases and felony battery cases. Common defenses in a simple battery case include showing that: you acted in self-defense, you did not touch a "victim" intentionally, you did not "touch" a "victim," and/or



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With the expanded + internal battery (96Wh capacity) and my battery optimized install of Arch, I can get a theoretical 34hrs of battery life (assuming 2.8W power ...

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New findings from MIT and elsewhere show some phosphate-based battery materials can change from crystalline to glassy while in use, possibly opening new avenues for design of batteries.

Simple extra battery for the expansion bay Framework Laptop 16 Framework Laptop 16's current CPU cooling system can only sustain 45 W according to the release blog post. I am unsure if this can be improved in the future with better die contact, higher static pressure fans, or a better fin stack in the heatsink.

I feel there is some confusion around the difference between the GPU expansion bay and the regular bay. The regular bay that I have designed the battery pack for does not have room for 18650 cells at the back. But there is also no exhaust out the back, just the sides. The GPU Expansion bay does have exhausting out the back and the sides. The sketch ...

There has been some concern raised regarding duty cycles of the expansion connector in the back of the 16. I wonder if alternatively, we could get a battery bay that sits in there with its own connector. Or potentially have a dual battery bay so you can really be a crazy hot swapper person.

Simple extra battery for the expansion bay. Framework Laptop 16. Brandon\_Walker January 25, 2024, 11:48pm 39. I disagreed before, but especially now, they upgraded the cooling without changing a thing about the size, but also, it really doesnt appear to be taking up all the space, it looks like they could fit at LEAST 1 more heatpipe, if not 2 ...

This is an update to our DIY How To series on How to Build a Large Solar Generator. In this follow up post, I will show you how we can use the quick connects designed into our solar generator to expand both the solar ...

Instead of using the expansion bay, maybe one can use an external battery with USB-C PD and just plug it into the USB-C port on the FW charging port. That is what I use for my mobile phone currently, but it would work just as well for a laptop as it would a mobile phone. Is the expansion bay wired such that it can hold a battery.

Pretty close. Theoretically five 18650s should be 91% as wide as the laptop. The largest 18650 cells I can find appear to be just over 12 Wh each, so five off those would be 60 Wh. A 71% improvement to battery life would make a big difference. I will note that I personally would prefer a design that uses the normal expansion bay shell (not the larger graphics module ...



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While the 0.5%-1% of electrode thickness expansion is natural and can/should be accommodated with some oversize of battery compartment, excessive irreversible puffing is a serious precursor to catastrophic failure.

Also, that can make it less transportable, which would be why a hot swappable expansion bay would be best. Just have the expansion bay act as a connector for the hot-swappable batteries. That way the expansion bay itself doesn't have to be hot swappable; only the battery packs have to be.

Simple extra battery for the expansion bay. Framework Laptop 16. Aaron\_Baff February 7, 2024, 7:29pm 78. Adrian\_Joachim: Apart from the volume lost to the cell hull, 4 cells with the total volume of one bigger one should not have ...

Consequently, testing battery expansion behavior at different temperatures may introduce considerable errors, affecting the accurate LIB expansion behavior assessment. 2. The diffusion rate of lithium ions within electrode materials typically lags behind the liquid-phase migration, leading to an unavoidable delay between expansion behavior and ...

Simple extra battery for the expansion bay Framework Laptop 16. Framework Laptop 16's current CPU cooling system can only sustain 45 W according to the release blog post. I am unsure if this can be improved in the future with better die contact, higher static pressure fans, or a better fin stack in the heatsink. ...

Simple extra battery for the expansion bay. Framework Laptop 16. Blacksmith12 February 7, 2024, 9:41pm 88. Aaron\_Baff: I found BQ25713 data sheet, product information and support | TI wh. This is a lot of super helpful info. You obviously know more than I do about stuff like this. Thanks for the help.

This article uses the single-electrode expansion test mold developed by IEST to decompose and compare the lithium battery expansion (positive and negative electrodes).

The expansion bay has 6 wires (and 6 ground wires) that are specifically for this. From the expansion bay documentation on those 6 wires: This allows power to be fed from the Expansion Bay back into the laptop in an Extended Battery scenario or another type of card that has a power supply attached.

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