

Hardware Leftovers

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- [Purism Librem 5 Linux smartphone is getting another \(big\) price hike - Liliputing](#)[2]

The Purism Librem 5 is one of only a handful of smartphones designed to run free and open source GNU/Linux distributions like Purism's custom PureOS software. It's also one of the most expensive, currently selling for \$899.

But it's going to get even more expensive soon. In a move foreshadowed earlier this year, Purism recently announced that prices will go up this fall due at least in part to rising supply chain costs due to the global chip shortage. Customers who place an order after November 1, 2021 will have to pay \$1199. And in March, 2022 the price will go up to \$1299.

- [LOLIN S2 Pico - A compact ESP32-S2 board with an OLED display - CNX Software](#)[3]

If you're into small MCU boards with an integrated display, you're in luck as LOLIN launched the S2 Pico board with ESP32-S2 and an OLED display about at the time same as LILYGO T-Display RP2040 board we covered yesterday.

Wemos/LOLIN S2 Pico board offers WiFi connectivity, a 128×32 OLED display, USB Type-C port for power and programming, as well as the usual GPIO headers in a compact 50×23 mm form factor.

- [Harp Uses Frikin? Lasers | Hackaday](#) [4]

We aren't sure if you really need lasers to build [HoPE's] laser harp. It is little more than some photocells and has an Arduino generate tones based on the signals. Still, you need to

excite the photocells somehow, and lasers are cheap enough these days.

Mechanically, the device is a pretty large wooden structure. There are six lasers aligned to six light sensors. Each sensor is read by an analog input pin on an Arduino armed with a music-generation shield. We've seen plenty of these in the past, but the simplicity of this one is engaging.

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[Take a Look at This Optical Keyboard](#) [5]

Making keyboards is easy, right? Just wire up a bunch of switches matrix-style to a microcontroller, slap some QMK and a set of keycaps on there and you're good to go. Well, yeah, that might work for cushier environments like home offices and Hackaday dungeons, but what if you need to give input under water, in a volatile area, or anywhere else you'd have to forego the clacking for something hermetically sealed? Mechanical switches can only take you so far ? at some point, you have to go optical.

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[The Many Ways To Solve Your Enclosure Problems | Hackaday](#) [6]

Most projects around here involve some sort of electronics, and some sort of box to put them in. The same is true of pretty much all commercially available electronic products as well.

Despite that, selecting an enclosure is far from a solved problem. For simple electronics it's entirely possible to spend more time getting the case just right than working on the circuit itself. But most of the time we need to avoid getting bogged down in what exactly will house our hardware.

The array of options available for your housing is vast, and while many people default to a 3D printer, there are frequently better choices. I've been around the block on this issue countless times and wanted to share the options as I see them, and help you decide which is right for you. Let's talk about enclosures!

[Hardware](#)

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