Ecosystems - Risk declaration

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This document contains our declaration of risk for Ecosystem products, as well as our assessment of that risk, what we do to mitigate it and evidence for the mitigation.

What we do: to prevent customer-facing setup burden, we fit the Raspberry Pi into its case and connect the fan, RTC battery and storage depending on the choices the customer makes in relation to these components in their order. We don't open, solder or modify the electronics. All products that we need to integrate in your ecosystem as part of your order are returned to their makers' boxes. We only use components that their manufacturers claim compatibility with and follow their assembly instructions exactly as they state in their documentation. We do not improvise setups, change electrical specifications, connect to different slots than recommended by the manufacturers and we do not create new electrical circuits. We assemble declared-as-compatible products, as they come from the manufacturer, where applicable. In Raspberry Pi's own case, we also secure the board with four M2.5 nylon stand-offs through the mounting holes Raspberry Pi provides in the case, so that it stays in place in transport. They insulate, and they do not change the board's height or any electrical connection. We do not create or use our own cables, batteries or materials, apart from the nylon stand-offs. We install the baseworks.tech software on the storage medium and may apply configuration or official firmware to the included devices. This includes setting the Raspberry Pi's Wi-Fi country to your shipping country, and turning on charging for the official rechargeable clock battery at the voltage that Raspberry Pi officially indicates. We use only firmware from official manufacturer sources and settings the devices already provide.

Parts under the incidence of this risk assessment: Raspberry Pi 5; Raspberry Pi Case for Raspberry Pi 5, with its fan and heatsink; Raspberry Pi RTC Battery (rechargeable ML2020); M2.5 nylon stand-offs; Raspberry Pi 27W USB-C Power Supply; MikroTik routers; ESP32 boards.

Our position: we rely on each maker's CE marking and declaration of conformity, and add no CE marking of our own. Nothing here limits your legal rights.

Risk	What we do	Evidence
Overheating in the closed case.	Fan connected and checked; ventilation kept clear; the safety note says not to cover the case. Tested in normal use, with the fan stopped, and with the vents covered.	Raspberry Pi Case for Raspberry Pi 5, tested 21 November 2026. 2 hours at full load on all cores: no throttling (get_throttled=0x0); hottest case surface 33.8 °C, corrected to a 25 °C room (EN 62368-1 limit 77 °C). Fan unplugged for 1

		hour: 43.1 °C; vents covered for 1 hour: 51.3 °C (limit 87 °C). The Pi slowed itself down, did not shut down, recovered after cooling, and showed no damage. Peak power 8.7 W. Case verification record, signed 24 November 2026.
Wrong power supply.	We supply the official adapter, or name the required one if the customer leaves it out.	CE marking on the adapter, and its declaration.
Coin battery (button cell).	We fit the official rechargeable Raspberry Pi RTC Battery (ML2020) with its adhesive pad against an inner wall of the case, plugged into the board's battery connector, and charge it at the 3.0 V Raspberry Pi documents. The case lid lifts off by hand, but the cell is an internal part, stuck down and wired in, that children are unlikely to remove (EN 62368-1, clause 4.8.1). Swallowing warning given.	24-hour charging test: 2.97–2.98 V before, 2.99 V after (limit 3.1 V); the cell holds when tugged by hand. Case verification record. Battery safety disclosure on our product page, at checkout and in the package.
Damage during fitting.	Power off, follow the case instructions, avoid pinched cables.	Internal order preparation checklist. We secure the board with nylon stand-offs, never metal ones.
The fitted unit fails.	Boot test before packing.	Internal order preparation checklist.
The case affects the Raspberry Pi 5's radio (Bluetooth, Wi-Fi).	We fit only Raspberry Pi's own plastic case, made for this board, and change no antennas. We set the Wi-Fi country to your shipping country, so the radio uses only the channels and power allowed there.	The case is plastic (ABS and PC) and cannot shield or redirect the radio. Raspberry Pi's EU declarations for the Raspberry Pi 5 and for the case. A 1-hour test at full load with a Bluetooth sensor: no dropout. Case verification record.

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Someone else reaches the Ecosystem control website.	The Ecosystem password is always required and cannot be turned off. Every change of it needs the current password. The website refuses requests addressed to other host names, or sent from other websites' pages.	Ecosystem software 1.0.163, 23 November 2026, checked on a test unit. Joining the Ecosystem's Wi-Fi also needs a password, and the link is encrypted.
Security issues such as unintended vulnerabilities in the software we choose or included on devices in the Ecosystem.	Allow the client to apply updates directly from manufacturers or producers of software to their own discretion. Offer updates ourselves, as a layer of redundancy on top of manufacturer updates. Offer updates to our own software.	Internal security-response checklists.
Someone relies on CO_2 readings for health or safety.	Readings are indicative, not medical advice or a safety alarm (Terms 16.2 and 16.3).	Terms and product page.
Setup cards show the initial password.	The user is asked to change the password during setup, and to store or destroy the cards.	Ecosystems Privacy Policy, Section 18.
Login to the Compute over the local network (SSH).	SSH accepts only the Ecosystem password, which changes with it, and is reachable only from your own network: the router does not allow it from the internet.	Router default configuration; Ecosystem software 1.0.163.

Our safety note, included with our products:

Safety. Your Raspberry Pi has been fitted into its case by baseworks.tech. We also opened the package and integrated specific products in your package into the baseworks.tech ecosystem that you ordered, then returned those products to their makers' boxes, included in this package.

- Use only the supplied adapter or, if you didn't order one, the device maker's official adapter or one with the rating it specifies.
- Keep the case vents clear. Don't cover it or place it near heat.
- Unplug it before opening the case.
- This product contains a button cell battery. Keep new and used batteries away from children, and don't open the case near them.

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- Swallowing a button cell can cause serious internal burns within 2 hours and can be fatal. If you think a battery has been swallowed or placed inside any part of the body, get medical help immediately.
- Do not attempt to recharge non-rechargeable batteries.
- Don’t put electronics or batteries in household waste.
- Use indoors, in a dry place.

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