Cyberdeck

Links

- Raspberry Pi 4 Model B 8GB | Buy in Australia | CE06974 | Core Electronics
- Official Raspberry Pi 64GB A2-Class micro SD card | Buy in Australia | CE09940 | Core Electronics
- Cooling Kit for Raspberry Pi 4 | Buy in Australia | CE08515 | Core Electronics
- PiJuice HAT - A Portable Power Platform For Every Raspberry Pi | Buy in Australia | CE05650 | Core Electronics
- 3-pin LiPo Battery for PiJuice 6000mAh | Buy in Australia | CE06797 | Core Electronics
- Rii 518BT Bluetooth Keyboard Mini Wireless Keyboard Mouse Remote Touchpad For Android TV Box PC
- 5 Inch Low-Power DSI IPS Touch Display for Raspberry Pi (800×480 Pixels) | Buy in Australia | WS-21973 | Core Electronics
- RTL-SDR Blog V4 R828D RTL2832U 1PPM TCXO HF Bias Tee SMA Software Defined Radio with Dipole Antenna Kit, RTLSDR_V4_WITH_ANTENNA : Amazon.com.au: Electronics
- Adafruit Mono 2.5W Class D Audio Amplifier - PAM8302 | Buy in Australia | ADA2130 | Core Electronics

Plans

Vision

To build a portable device that can be used as a hobbyist developer terminal and tinkering project, with exposed USB / audio / network / display ports a swappable control panel on the front utilising magnetic pogo connectors (keyboard / gamepad / other) and a small touchscreen display.

Speakers would be desirable in order to utilise the device as a small media client when on the move, but Bluetooth audio could also be enough for the project.

Before committing to modelling and building a case for the device, some sort of prototype made from cardboard would initially be used to determine if the form factor is actually usable for the purposes listed above.

Power Requirements

Ideally the device could be used under reasonable load for 4 hours, and hold a charge for ~1 week when powered off.

Initially the Pi and other peripherals will be purchased without the battery and management system in order to work out how much power the device will draw under normal use before committing to a specific form factor for the power delivery system.

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