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| **Cost** | **Item** | **Notes** |
| **$469.76** | **Total of below** | |
| $76.57 | [Rpi4b (4Gb)](https://www.amazon.com/dp/B07TC2BK1X) |  |
| $15.78 | [SD Card - SANDISK 128GB Extreme](https://www.amazon.com/dp/B09X7BK27V) |  |
| $27.62 | [(2x) 12v to 5V USBC Buck Converter](https://www.amazon.com/dp/B0BCP86XPY) | I didn’t want to deal with thin gauge 5vdc or 3.3vdc wiring. These converters are idiot proof, and strictly let me deal with 12vdc wiring. |
| $95.70 | [Touchscreen - Waveshare 10.1" DSI LCD version C](https://www.amazon.com/dp/B0BLZ5CSJQ) | Hindsight 20/20, I wish I got a brighter screen. This one is OK |
| $41.47 | [Enclosure - 290x190x140mm Makerle](https://www.amazon.com/dp/B09CMJFGBS) | Chosen to fit 10.1” screen selected. |
| $21.26 | [GPS USB Dongle](https://www.amazon.com/dp/B073P3Y48Q) |  |
| $8.81 | [Micro HDMI Adapters (x2)](https://www.amazon.com/dp/B07K21HSQX) | For connecting to a monitor during initial setup. |
| $10.62 | [HeatSink - Geekworm P165A](https://www.amazon.com/dp/B07Z3Q417K) | As shown on Openplotter docs. ☺ |
| $40.82  w/ coupon | [12Vdc JumperPack - 128000mAh NEXPOW](https://www.amazon.com/dp/B09F9CR89W) | I figured I could get “Dual Use” out of this during the winter as an actual jump pack. The side benefit is that the 12V EC5 connection is directly connected to the internal batteries and doesn’t randomly shut off like some other “battery banks”. |
| $12.76 | [SAE Panel Mount Connector](https://www.amazon.com/dp/B07XLK4CH3) | 12v Switched from boat Power IN |
| $14.88 | [EC5 Connectors](https://www.amazon.com/dp/B0882ZT34S) | Plugs into Jump Pack for 12vdc |
| $14.45 | [SP21 12-pin Panel Mount Connector](https://www.amazon.com/dp/B07BJXKKYV) | For connecting to my Fixed Mount VHF Uniden UM385 radio (& wired for future use for external 1W sensing) |
| $29.76 | [(2x) Adafruit 4226 INA260 - Voltage Current Monitor](https://www.amazon.com/dp/B07S8QYDF8) | Monitors JumpPack voltage & input voltage |
| $10.52 | [DPDT Switches - Nilight (x6)](https://www.amazon.com/dp/B087NCLX3W) | 2 installed, 1 utilized. Spares for other projects. |
| $19.12 | [USB to RS422 (NMEA0183) - DTECH DT-5019](https://www.amazon.com/dp/B076WVFXN8) | As shown on Openplotter docs. ☺ |
| $19.12 | [Fishfinder Mount (RAM Clone)](https://www.amazon.com/dp/B0C1K3FS7Q) | Surprisingly strong, but I’m trying to hold a bit too much weight. |
| $26.58 | [Rii K06 Mini Bluetooth Keyboard](https://www.amazon.com/gp/product/B0BML42L6X/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1) | Only really use it when I need to “right click” something in OpenPlotter for setup. |
| $11.69 | SD Card - SANDISK 64GB Extreme | Backup |
| $10.62 | [12MM Waterproof Momentary Push Button](https://www.amazon.com/gp/product/B07F24Y1TB/ref=ppx_od_dt_b_asin_title_s00?ie=UTF8&psc=1) | Work great! |
| $36.11 | [RTL-SDR Blog V3](https://www.amazon.com/gp/product/B0BMKZCKTF/ref=ppx_od_dt_b_asin_title_s00?ie=UTF8&psc=1) | I’m a ham radio guy, and already have experience with this unit. It gets too hot inside of my enclosure. |
| $15.94 | [Raspberry Pi 3 Proto Boards (x3)](https://www.amazon.com/gp/product/B07B4TRVFD) |  |
| $12.75 | [Degraw DIY Speaker Kit](https://www.amazon.com/gp/product/B07CRVRG83) | Not worth it. It pulls too much power from RPi 5vRail and corrupts your SD card. Just use an external Bluetooth speaker if you want it. |
| $41.00 | [TRAM 1600-HC VHF Ant](https://www.amazon.com/gp/product/B000FCP1NO) | Having a whole separate antenna is cheaper than buying a VHF/AIS splitter, and keeps my boat antenna dedicated to the VHF radio. |
| $7.42 | [Breadboard Jumpers](https://www.amazon.com/gp/product/B01EV70C78/ref=ppx_od_dt_b_asin_title_s00?ie=UTF8&psc=1) | For breadboaring/testing. |
| Free | Spare solid core CAT5E for wiring buttons / etc, Labelmaker, cheap unpowered USB hub, WAGO 221 Lever Nuts (fantastic product), SO239 Panel mount connector (from ham radio use), spare SMA SDR cable, |  |