BOM

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Descriptions | Link | Quantity |
| 1 | Waveshare Raspberry Pi 10.1inch HDMI LCD 1024x600 Capacitive Touch Screen with case for Raspberry Pi 2 3 Model B B+ &BeagleBone Black Support Raspbian Ubuntu with Video Input | <https://www.amazon.de/Waveshare-HDMI-LCD-kapazitiver-Videoeingang-schwarz/dp/B01CU7VX5Q?th=1> | 1 |
| 2 | Raspberry Pi 4 8GB |  | 1 |
| 3 | Raspberry Pi - M.2 HAT+ for Raspberry Pi 5 |  | 1 |
| 4 | Raspberry Pi - M.2 NVMe SSD, 256GB |  | 1 |
| 5 | Raspberry Pi 4 Heatsink Aluminum Heatsink Cooler Kit Radiator Black Silver, Raspberry Pi 4 Model B, 4 pcs | AliExpress : Raspberry Pi 4 Heatsink Aluminum Heatsink Cooler Kit Radiator Black Silver, Raspberry Pi 4 Model B, 4 pcs | 1 Set |
| 6 | Microcontroller Teensy 4.1 |  | 1 |
| 7 | EAV (GSR) Sensor (op-Amp+ADC): | <https://de.aliexpress.com/i/1005005467354271.html> | 1 |
| 8 | Pigtailed NIR laser |  | 1 |
| 9 | Rod coated with TiN (titanium nitride) |  | 1 |
| 10 | RPi 4 40Pin Cable | <https://www.aliexpress.com/item/32391134102.html> | 1 |
| 11 | Mini embedded power Supply AMS1117 3.3 V | <https://www.ebay.de/itm/174942374246> | 1 |
| 12 | TXS0108E 8 Channel Logic Level Converter 3.3V 5V | <https://www.amazon.de/iHaospace-Kanal-Logikpegelwandler-bidirektionaler-High-Speed-Shifter-Raspberry/dp/B07PPR7T4D> | 1 |
|  |  |  | 1 |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| ID | Description | Link | Quantity |
| 13 | External power supplyULPS2250B 5x3.5x2 | <https://osaelectronics.com/get/psu>  /ulps2250a/OSA\_ULPS22\_Series.pdf | 1 |
| 14 | Laser module with pig tail |  |  |
| 15 | SMA Female | <https://ko.aliexpress.com/item/>  1005008696517200.html?gatewayAdapt=glo2kor | 2 |
| 16 | SMA Male | <https://ko.aliexpress.com/item/>  1005008696517200.html?gatewayAdapt=glo2kor | 2 |
| 17 | Banana EAV Female | <https://de.aliexpress.com/>  item/1005009045131805.html | 2 |
| 18 | Banana EAV Male | https://de.aliexpress.com/item/4000578573724.html | 2 |
| 19 | XT30 Power connector | https://de.aliexpress.com/item/1005006845627223.html | 2 |
| 20 | DC Panel Mount Connector | <https://www.adafruit.com/product/>  610?srsltid=AfmBOorUKJoqa8CR7OLRXw3Ly3FrvEVlPpW3\_9mdJA\_Tgz-H8zCP5Nlg | 2 |
| 21 | 40 Pin Header | https://www.digikey.kr/ko/products/detail/samtec-inc/SSW-120-01-G-D-LL/7881550 | 1 |
| 22 | 2 pin header | https://www.digikey.com/en/products/detail/harwin-inc/M20-9990246/3728226 | 12 |
| 23 | HCPL-2232 | https://www.digikey.kr/en/products/detail/broadcom-limited/hcpl-2232/637321 | 6 |
| 24 | H11F1SM-ND | https://www.digikey.kr/en/products/detail/onsemi/h11f1sm/1793946 | 6 |
| 25 | R1SE-0505-R Isolated Power Module | https://www.digikey.kr/en/products/detail/recom-power/r1se-0505-r/3593408 | 2 |
| 26 |  |  |  |