| Description | Designator | Footprint | Qty | Value |
| --- | --- | --- | --- | --- |
| Dip switch SMD | Addr | GDH04STR04 | 1 |  |
| LED | B.D, E.X, F.L, H.D, LEDB1, LEDG1, LEDR1, LEDY1, O.A, O.V, P.A, P.O, P.V, PMP1, PMP2, S.P | 0805 | 16 | Red: B.D,E.X,F.L,O.A,O.V,P.A,P.O,P.V,S.P,LEDR1 Blue: PMP1,PMP2,LEDB1 Green: LEDG1 Yellow: LEDY1 |
| PHOENIX2-Right-5mm | BD, EX, FL, HD, OA, OV, PA, PO, Pump1, Pump2, PV, SP | PHOENIX2-Right | 12 |  |
| Capacitor | c14, c15 | 0805 | 2 | 22pf |
| Capacitor | C1, C2, C3, C4, C5, C6, C7, C9, C12, C13, C18, C19, C20, C21, C22, C23, C24, C25, C27, C28, C29, C30 | 0805 | 22 | 100nF |
| Capacitor | C8, C10 | HDR1X2 | 2 | 100uf |
| Capacitor | C11, C26 | 0805 | 2 | 10uF |
| Capacitor | C16, C17 | 0805 | 2 | 2.2uF |
| MCP2551-E\_SN | CAN | SOIC127P600X175-8N | 1 |  |
| Diode 1N4007 | D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D15, D16 | DO-41 | 12 |  |
| US1M | D11, D14 | US1M | 2 |  |
| SS34 | D12, D13 | SS34 | 2 |  |
| Diode Zener | D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D29, D30 | d1805 | 13 | 3.3v |
| PSM712-12 | D28 | psm712 | 1 |  |
| BAT54SWFILMY | DHT, DHT2, DPT, DVT | SOT65P210X110-3N | 4 |  |
| Thermal Fuse | FU1, FU3 | 1206 | 2 | 1.5A |
| Thermal Fuse | FU2 | resetable fuse 3A | 1 | 3A |
| NF | HT2 |  | 1 | NF |
| MPX5010dp | HT1,VT1 | MPX5010dp | 2 |  |
| MPX5100dp | PT | MPX5100dp | 1 |  |
| TC4469CPD | ICV1, ICV2, ICVP | DIP794W56P254L1905H432Q14N | 3 |  |
| ferrite bead | L1 | fBEAD | 1 | 10mH |
| BTS133 | M\_pmp1, M\_pmp2 | IPB026N06NATMA1 | 2 |  |
| LM324AN | PrOA | DIP254P762X432-14 | 1 |  |
| Pingerd 5 | Prog1 | Pingerd 5 | 1 |  |
| phoenix4-right | PS24-5 | phoenix4-right | 1 |  |
| 2N2222 | QBD, QEX, QFL, QHD, QOA, QOV, QPA, QPO, QPV, QSP | 2n2222 | 10 |  |
| Resistor | R1, R2, R3, R4, R7, R8, R9, R17, R18, R19 | 0805 | 10 | 1k |
| Resistor | R5, R6 | 0805 | 2 | 100 |
| Resistor | R10, R29, R30, R31, R32, R33, R34, R35, R36, R37, R44, R45, R58, R60 | 0805 | 14 | 4.7k |
| Resistor | R11, R13, R23, R27, R28, R48, R49, R50, R53, R61, R64, R66, R67, R69, R72, R74 | 0805 | 16 | 220 |
| Variable Resistor, Resistor, Semiconductor Resistor | R12, R14, R22, R24, R47, R51, R54, R55, R56, R63 | 0805 | 10 | 10k |
| Resistor, Semiconductor Resistor | R15, R20, R25, R38, R70 | 0805 | 5 | 3.3k |
| Resistor, Semiconductor Resistor | R16, R21, R26, R57, R68 | 0805 | 5 | 1.8k |
| Resistor | R39, R42, R43, R52, R62 | 0805 | 5 | 0 |
| Resistor | R40, R41 | 0805 | 2 | 10 |
| Resistor | R46 | 0805 | 1 | 330 |
| Resistor | R59 | 0805 | 1 | NF |
| Semiconductor Resistor | R65 | 0805 | 1 | 120 |
| RJ45\_Dual-Right | RJC | RJ45\_dual\_right | 1 |  |
| Switch | S1 | sw-pb-4p | 1 |  |
| REG1117-3.3 | U1 | SOT223 | 1 |  |
| STM32F407VGT6 | U2 | 100A\_N | 1 |  |
| ADM485 | U3 | NSO8\_N | 1 | SMD |
| Crystal or Oscillator | x1 | HC49/4HSMX\_1 | 1 | 16Mhz |