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| --- | --- | --- | --- | --- | --- | --- |
| C1  10uF 25V X5R |  | C2,C3,C8,C10,C11,C12,C14  0.1uF 50V X7R |  | C4,C5  22uF 16V X5R |  | C6  1uF 16V X7R |
|  | | | | | | |
| C7  3.3nF 50V X7R |  | C9  47uF 16V electro (C) |  | I74,I75,I76,I77  Molex 6-pin header |  | L1  3.3uH 6.8A |
|  | | | | | | |
| LED3  470nm 0603 |  | LIGHT  1x2 screw terminal |  | MOTOR  1x5 screw terminal |  | OUT-TTL-IN  1x3 pin strip |
|  | | | | | | |
| Q1  N-MOSFET 30V 6.3A (FDT439N) |  | R1  4.7k resistor 0603 |  | R2  4.7k x 4 array 1206 |  | R18  2.2k resistor 0603 |
|  | | | | | | |
| R21  10k resistor 0603 |  | R22  124k resistor 0603 |  | R23  22.1k resistor 0603 |  | R24,R25  5.6k resistor 0603 |
|  | | | | | | |
| R40  1k resistor 0603 |  | REG  3A 12V sw regulator  (TPS54327DDAR) |  | S1  2-pos DIP switch |  | SW1,SW2  Pushbutton switch |
|  | | | | | | |
| TTL  Horizontal HDMI-A jack |  | U1  4-ch H-bridge driver (TB6612FNG) |  | U2  7-ch low-side driver  (TPL7407LPWR) |  | U3  Level shifter  (SN74LVC4245A) |
|  | | | | | | |
| EEPROM  I2C 256kb  (CAT24C256W1) |  | 12V  DC power connector |  | J1  Header shunt |  | C13  10uF 6.3V 0603 |
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