

[illegible][illegible]

**QEI INTERFACE**

The schematic diagram illustrates the TC6424AARG circuit. The IC is connected to a 3.3V supply (VCC\_3V3) and ground. It features two 10k resistors (R27, R28) and a 1uF capacitor (C7). The IC has 24 pins, with pins 1-8 connected to a keypad (KEYPAD1) and pins 9-16 connected to a keypad (KEYPAD2). Pins 17-24 are connected to LEDs (LED0-LED7). The circuit is shown with two headers: HEADER 10X2 and HEADER 10X2.

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The diagram illustrates a 4-color LED stepper motor driver circuit. It features a ULN2003APW driver IC, four 220Ω resistors (R01-R04), and four LEDs (LED\_M0-LED\_M3). The LEDs are connected to a 5V supply (VCC\_5V) through the resistors. The driver IC is powered by a 5V supply (VCC\_5V) and its ground (GND). The driver IC pins are connected to a 5-pin stepper motor (J1) as follows: B1 to Red, C1 to Orange, C2 to Yellow, C3 to Purple, and C4 to Blue. The driver IC is also connected to a 5V supply (VCC\_5V) and ground (GND).

VCC\_3V3

R67  
R0603\_10K

R69  
50K

AN2

C24  
C0603\_0.1uF

[illegible]

The schematic diagram illustrates the power supply circuit. A 5V input is connected to a 10µF capacitor (JP10) and a 1N4148 diode (D11) in series with an MBR0530T1 Schottky diode. The output is connected to a 100µF capacitor (BA1) and a CR1220 capacitor to ground.