

The schematic diagram illustrates a 3-pin fan module. It features three fans, labeled M1, M2, and M3, each with a 3-pin connector. The pins are color-coded: red for power (+5V), blue for tachometer (Tacho), and green for ground (GND). Each fan is connected to a corresponding diode, labeled D3, D4, and D5, respectively. The diodes are 1N4007. The power pins of all fans are connected to a common VCC line. The tachometer pins of all fans are connected to a common Tacho line. The ground pins of all fans are connected to a common FAN\_GND line.

### Timer 555 & MOSFET

The diagram shows a 555 timer (U1, NE555P) configured as an astable multivibrator. The timer's pin 1 (GND) is connected to ground. Pin 4 (VCC) is connected to the positive supply rail. Pin 5 (CV) is connected to ground through a 100nF capacitor (C4). The timing network consists of two resistors (R1, 1k) and two diodes (D1, D2, 1N4007) connected to pins 2 (TR) and 6 (THR). A potentiometer (RV1, 10k) is connected between pins 2 and 6, with its wiper (pin 3) connected to pin 3 (Q). The output of the timer (pin 3, Q) drives the gate of a MOSFET (Q1, IRFZ44N). The MOSFET's source is connected to ground, and its drain is connected to the fan's ground (FAN\_GND). The fan's power is supplied by a separate source (GATE\_MOSFET) connected to the MOSFET's gate. The fan's power is also connected to ground (GND).

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