



#### OLED Module with SSD1306 Driver

NOTE:  
A 10uF electrolytic capacitor was added to the oled across the reset pin to simulate a delayed hard reset on power-up. This can be avoided by using another GPIO output from the micro and programming a toggle of the reset pin at initialisation. Capacitor not shown here as it is to be attached directly to the OLED module (not wanted on the PCB).

#### I2C Mode:

- 1 - SDA - Serial Data
- 2 - SCL - Serial Clock
- 3 - SA0 - Serial Address bit 0 (Address: 0b011110<SA0><R/W>)
- 4 - RST - Reset (Active Low, Keep High for Normal Operation)
- 5 - (N/C) - Not Connected (Tie Low)
- 6 - 3.3V - 3.3V Output (Onboard Regulator, Not Used)
- 7 - Vin - Supply Voltage (5V)
- 8 - GND - Ground

#### SPI Mode:

- 1 - MOSI - Master Out, Slave In
- 2 - SCLK - Serial Clock
- 3 - D/C - Data/Command Select
- 4 - RST - Reset (Active Low, Keep High for Normal Operation)
- 5 - CS - Chip Select
- 6 - 3.3V - 3.3V Output (Onboard Regulator, Not Used)
- 7 - Vin - Supply Voltage (5V)
- 8 - GND - Ground

refer to [https://github.com/Clewsy/grinder\\_timer](https://github.com/Clewsy/grinder_timer)

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