

OLED Shield

64×48 pixels (0.66” Across) OLED Shield with I2C

- Get Started
- Buy Now



Features

- **Screen Size:** 64×48 pixels (0.66” Across)
- **Operating Voltage:** 3.3V
- **Driver IC:** SSD1306
- **Interface:** IIC(I2C)
- **IIC Address:** 0x3C or 0x3D

Pins

D1 mini	Shield
D1	SCL
D2	SDA

Arduino Code

SparkFun Library

- Install SparkFun_Micro_OLED_Arduino_Library (https://github.com/sparkfun/SparkFun_Micro_OLED_Arduino_Library/tree/master)
- Test Code (https://github.com/wemos/D1_mini_Examples/tree/master/examples/04.Shields/OLED_Shield/Use_SparkFun_Library)

Adafruit SSD1306 Library

- Install Adafruit_SSD1306_Library (https://github.com/mcauser/Adafruit_SSD1306/tree/esp8266-64x48) (Add support by @mcauser (<https://github.com/mcauser>))
- Test Code (https://github.com/mcauser/Adafruit_SSD1306/blob/esp8266-64x48/examples/ssd1306_64x48_i2c/ssd1306_64x48_i2c.ino)

NodeMCU Code

- Build NodeMCU Firmware with **ssd1306_64x48_i2C** support using NodeMCU custom build (<http://nodemcu-build.com/>) cloud service.

Select modules to include

☐ ADC

☐ bit

☐ BMP085

☐ CJSON

☐ CoAP

☐ crypto

☐ DHT

☐ end user setup

☒ file

☐ GPIO

☐ HX711

☐ I2C

☐ MQTT

☒ net

☒ node

☐ 1-Wire

☐ PWM

☐ RC (no docs)

☐ RTC fifo

☐ RTC mem

☐ RTC time

☐ SNTP

☐ SPI

☒ timer

☐ TSL2561

☒ U8G

☒ UART

☐ UCG

☒ WIFI

☐ WS2801

☐ WS2812

Click the  to go to the module documentation if you're uncertain whether you should include it or not.

The selected default modules will give you a basic firmware to start with. Select as few modules as possible as to keep the firmware small. See the [FAQ](#).

I'd really like to offer some guidance as to which modules to select but the NodeMCU team doesn't provide a documented dependency matrix yet. See [#386](#) for details.

U8G options

U8G fonts,  select

font_6x10,font_chikita

keep the font list down to a minimum as to not waste precious heap space

U8G display, I2C

ssd1306_64x48_i2c

U8G display, SPI

ssd1306_128x64_hw_spi

- Test code: oled_test.lua (https://github.com/wemos/D1_mini_Examples_lua/blob/master/Shields/OLED_Shields/oled_test.lua)

Documents

- Get Started with OLED Shield
- Schematic