

XC4384 Arduino Compatible OLED Display



Overview:

The XC4384 Arduino Compatible OLED Display is a compact, low power, monochrome display featuring 128x64 pixels with an active area of 22mm x 11mm. With no backlight, low current consumption can be achieved by turning all the pixels off. The I2C interface only uses two data pins, and the board is 5V power and IO compatible. The display uses a SSD1306 Controller IC.

Libraries:

The U8glib library supports the SSD1306 controller, and can be installed via the Library Manager (Sketch>Include Library>Manage Libraries...), or from:

<https://github.com/olikraus/u8g2/archive/master.zip>

This library also supports the PCD8544 controller found in the XC4616 display and the ST7920 controller found in the XC4617 display.

Connections:

The digital pins which the I2C interface is connected varies by board, but can also be accessed via the SCL and SDA pins on R3 boards (nearest the USB connector). Otherwise, the following may be used:

Board	SDA	SCL	VCC	GND
Uno	A4	A5	5V	GND
Nano	A4	A5	5V	GND
Mega	D20	D21	5V	GND
Leonardo	D2	D3	5V	GND
Lilypad	D2	D3	3.3V	GND

Sketch Code:

The U8glib library has numerous examples HelloWorld or GraphicsTest are good starting points and can be found at File>Examples>U8glib. Ensure the following line is uncommented to work with this display:

```
U8GLIB_SSD1306_128X64 u8g(U8G_I2C_OPT_NONE|U8G_I2C_OPT_DEV_0); // I2C / TWI
```

More detailed instructions on library usage and Arduino connections can be found at:

<https://github.com/olikraus/u8glib/wiki>