

PRODUCT DATASHEET



Display OLED I2C 0.96" SSD1306

333099

The 0.96" I2C OLED display offers high contrast visuals with 8192 pixels, perfect for low-power Arduino projects.

Full product documentation, files and tutorials: solde.red/333099

CORE ATTRIBUTES

SKU **333099**WEIGHT **8 g**BARCODE **732388668403**

DESCRIPTION

Looking to add visuals to your Arduino projects? The I2C OLED breakout board is perfect for that. Because of its high contrast, you will be in awe of its crispness! The display is made from hundreds of LEDs, each representing one pixel in a 128×64 grid. Thus, it doesn't need any backlight, and it needs less power than the classic LCD screens. That's 8192 pixels all individually lit at your fingertips!

The design is 5V ready with an onboard regulator, so is compatible with any 3.3V board. The breakout board uses only about 20 mA, depending on active pixels. It is easy to control over the I2C interface. It is even easier to connect with the qwiic system - no soldering required!

TECHNICAL DETAILS

- **Screen diagonal:** 0.96" wide
- **Current consumption:** ~20 mA (depending on active pixels)
- **Logic voltage level:** 5V (on I2C header)
- **Operating voltage:** 5V (onboard regulator for 3.3V)
- **Communication:** I2C (address: 0x3C)
- **Connectors:** Qwiic x2
- Optional white pixel color
- Optional blue pixel color
- **Mounting holes:** 2
- **Dimensions:** 30 × 30 mm / 1.2 × 1.2 inch

SPECIFICATIONS

INTERFACE

I2C

QWIIC COMPATIBLE	Yes
I2C ADDRESS DEFAULT	0x3C
I2C ADDRESS CHANGEABLE	No
BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	SSD1306
SUPPLY VOLTAGE MIN V	3.3
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	3V3 Or 5V
OPERATING CURRENT (MA)	20 mA

LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-OLED-Display-Arduino-Library
Open Source Hardware Files	https://github.com/SolderedElectronics/Display-OLED-I2C-white-0.96-hardware-design
Full Documentation	https://docs.soldered.com/ssd1306/overview/
Arduino: Get Started	https://docs.soldered.com/ssd1306/arduino/getting-started/
Hardware Details	https://docs.soldered.com/ssd1306/hardware/
Arduino Library Documentation	https://docs.soldered.com/ssd1306/arduino/writing-text/
MicroPython Module	https://github.com/SolderedElectronics/Soldered-MicroPython-Modules/tree/main/Displays/SSD1306
Pinout	https://cms.soldered.com/products/333099/media/333099_pinout-png_2b64ad.svg

GALLERY

