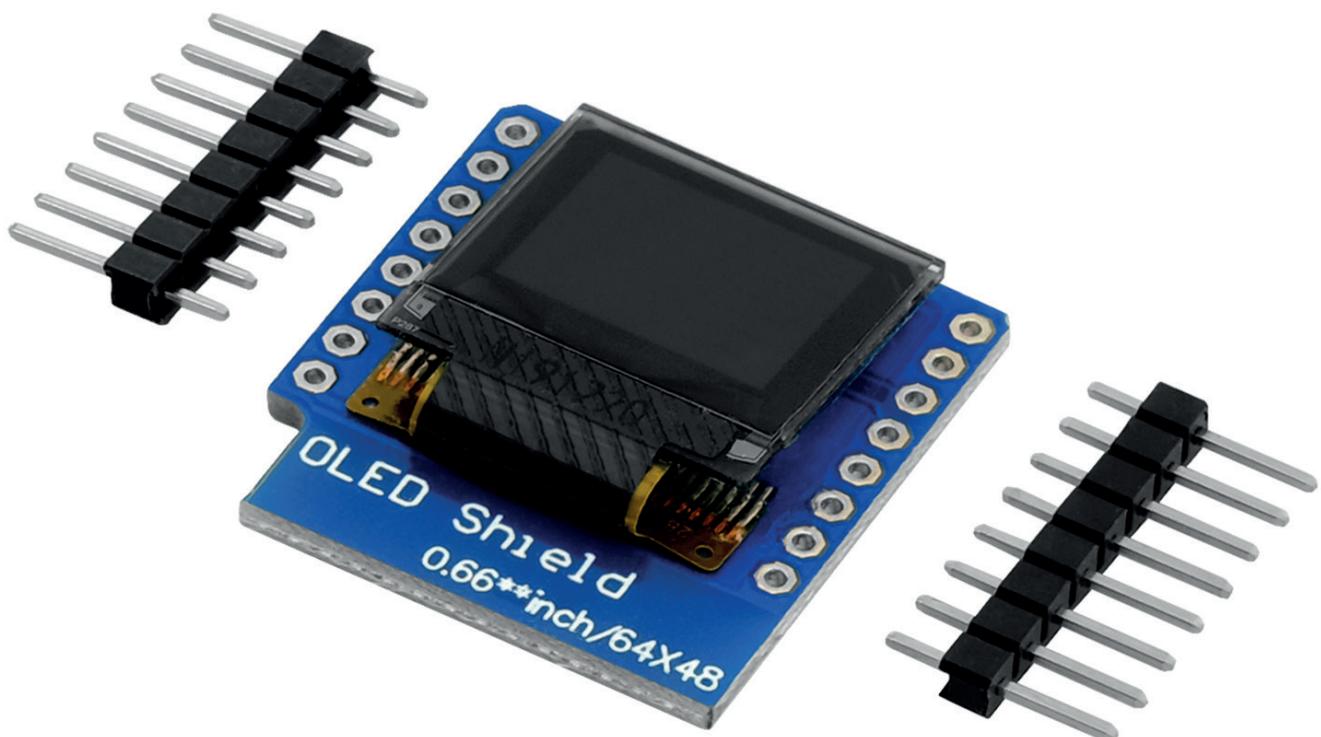


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# 0,66 Zoll OLED Display Shield Datenblatt



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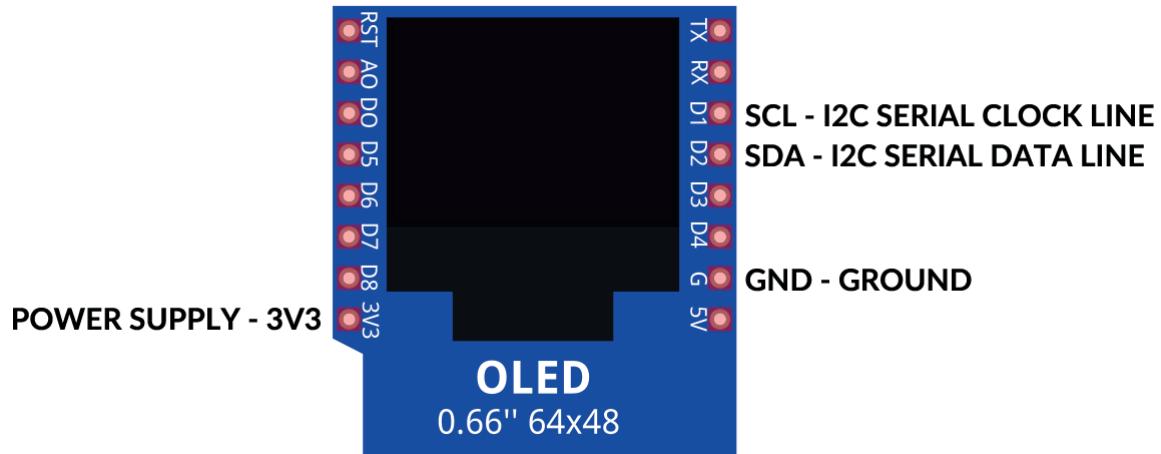
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## 1. Basic Specifications

Power Supply Voltage	3.3V
Display Size	64 pixels x48 pixels (0.66" diagonal)
Driver Chip	SSD1306
Communication Interface	I <sup>2</sup> C
Pixel Color	White
Operating Temperature	Up to 40 °C
Dimensions	25 mm x 28 mm x 10 mm [0.9 inch x 1.1 inch x 0.4 inch]

## 2. Pinout

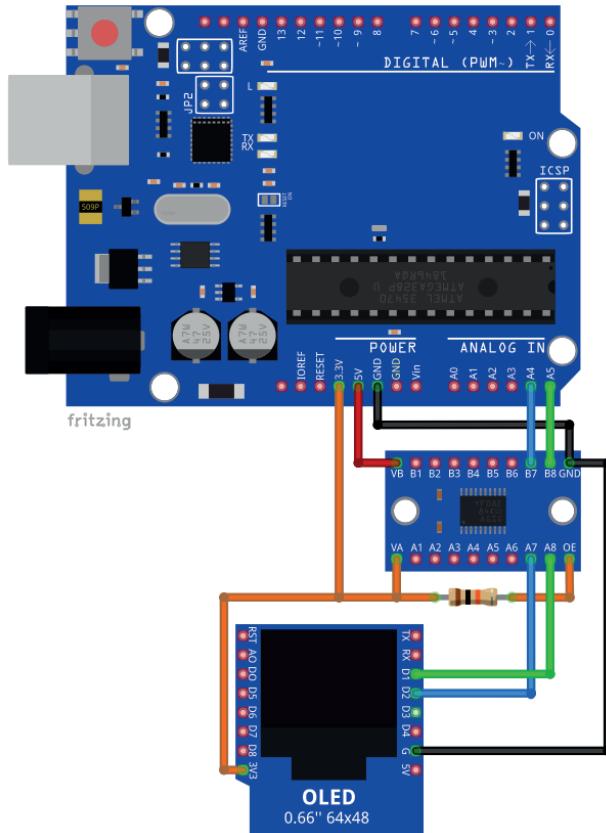


The 0.66" OLED Display shield is designed mainly for the D1 Mini micro controller and the pins on the board are the same as on the D1 Mini.

To use the 0.66" OLED Display with other micro controllers, only the four pins are used for I2C and power supply connections.

## 5. Connection Diagram

Connect the 0.66 inch OLED display with the Microcontroller compatible with Arduino as shown on the following connection diagram:



Microcontroller pin	TXS0108E pin	Wire color
3.3V	VA	Orange wire
5V	VB	Red wire
GND	GND	Black wire
A4	B7	Blue wire
A5	B8	Green wire
TXS0108E pin	OLED Shield pin	
VA	3V3	Orange wire
A7	D2 (I2C - SCL)	Blue wire
A8	D1 (I2C - SDA)	Green wire
OE	VA/3.3V (via 10k resistor)	Orange wire
GND	G (Ground)	Black wire

Note: The 0.66" OLED display pins are working in 3.3V range. In order to use the module with the Microcontrollers Compatible with Arduino, the Logic Level Converter must be used. Otherwise introducing the signal from the Microcontroller pins to display pins may cause damage to the display. For this purpose use the device called TXS0108E 8ch Logic Level Converter that AZ-Delivery offers.

## 4. Precautions

- Identify and, at all times, observe absolute maximum ratings for both logic and LC drivers.
- Prevent the application of reverse polarity to VDD and VSS, however briefly.
- When storing the OLED modules, avoid exposure to direct sunlight or to the light of fluorescent lamps.
- Liquid crystals solidify under low temperature (below the storage temperature range) leading to defective orientation or the generation of air bubbles (black or white). Air bubbles may also be generated if the module is subject to a low temperature.
- To minimize the performance degradation of the OLED modules resulting from destruction caused by static electricity etc., exercise care to avoid holding the following sections when handling the modules.
  - Exposed area of the printed circuit board.
  - Terminal electrode sections.
- Do not disassemble the OLED display module.
- Do not drop, bend or twist OLED display module.
- Soldering: Only to the I/O terminals.
- Storage: Please store the display in anti-static electricity container and clean environment. It is pretty common to use "Screen Saver" to extend the lifetime and do not use fix information for long time in real application.

Do not use fixed information in OLED panel for long time, that will extend "screen burn" effect time.

- Since the display panel is being made from glass, do not apply mechanical impacts such as dropping from a high position.
- If the display panel is broken by some accident and the internal organic substance leaks out, be careful not to inhale nor lick the organic substance.
- If pressure is applied to the display surface or its neighborhood of the OLED display module, the cell structure may be damaged and be careful not to apply pressure to these sections.
- The polarizer covering the surface of the OLED display module is soft and easily scratched. Please be careful when handling the OLED display module.

- When the surface of the polarizer of the OLED display module has soil, clean the surface. It takes advantage of by using adhesive tape.

Never try to breathe upon the soiled surface nor wipe the surface using cloth containing solvent. Also, pay attention that the following liquid and solvent may spoil the polarizer:

- Water
- Ketone
- Aromatic Solvents

- Hold OLED display module very carefully when placing OLED display module into the System housing. Do not apply excessive stress or pressure to OLED display module.
- Do not over bend the film with electrode pattern layouts. These stresses will influence the display performance. Also, secure sufficient rigidity for the outer cases.



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