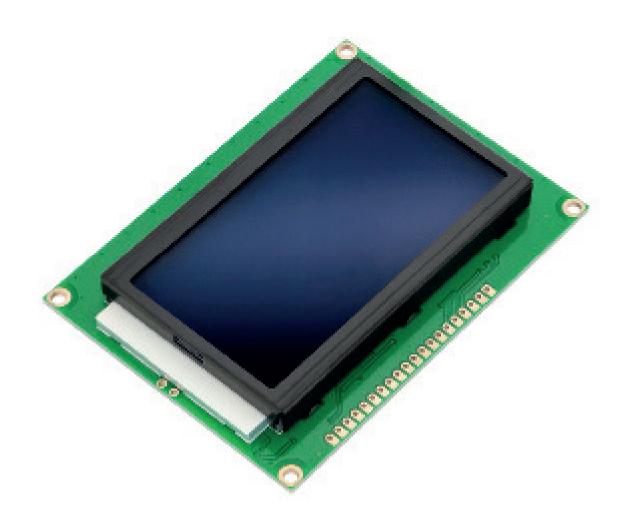


128 x 64 Pixel Blaues LCD Display Modul Datenblatt



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1. Basic Specifications

• Module dimensions: 93 mm x 70 mm x 12.5 mm

• Dot Matrix: 128 x 64 Dots

• Visual Area: 71.8 mm x 33.24 mm

• Dot Size: 0.48 mm x 0.48 mm

• Display Connector: Pin Header, 20 pins

• LCD type: STN, Positive, Transflective, Blue

• Backlight: ED, White

Operating temperature: from -20°C to +70°C

• Storage temperature: from -30°C to +80°C

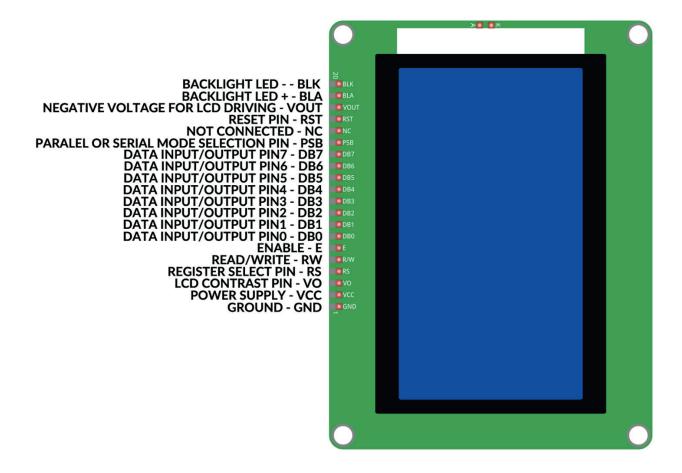
2. Absolute Maximum Ratings

ltem	Symbol	Min.	Тур.	Max.	Unit
Supply Voltage for Logic	VDD-VSS	-0.3	ı	+5.5	V
Power Supply for LCD	VEE	-0.3	1	+7.0	V
Input Voltage	VIN	-0.3	-	VDD+0.3	V
Supply Current for Backlight	İLED	-	60	-	mA

3. Electrical Characteristics

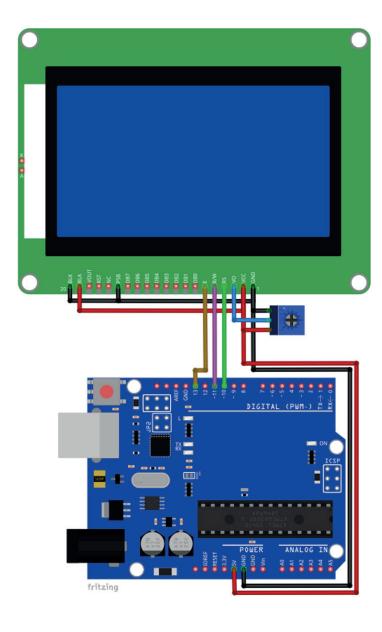
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Dower Supply for LCM	VDD-VSS	-	4.8	5.0	5.2	V
Power Supply for LCM			3.0	3.3	3.6	
Input Voltage	VIL	L Level	-0.2	ı	1	V
ļ 3.	VIH	H Level	VDD-1.0	ı	VDD	V
LCD Driving Voltage	VDD-VO	1	4.5	4.8	5.1	V
Supply Current for LCM	ldd	V _{DD} =5.0V	-	ı	6000	μA
	.55	V _{DD} =3.3V	-	- 1	5750	

4. Pinout

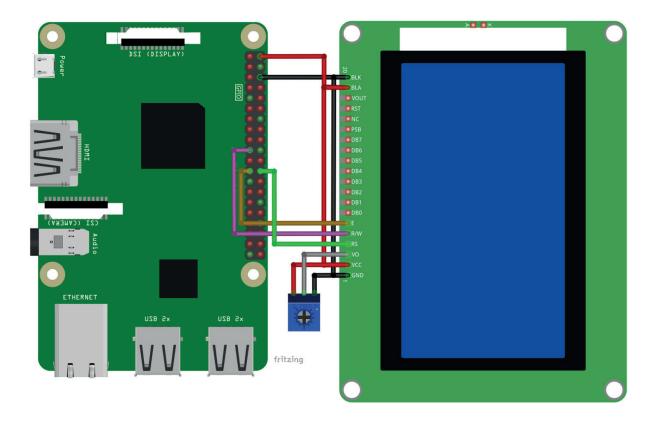


5. Connection Diagrams

Connect the 128x64 LCD Display with the Microcontroller compatible with Arduino as shown on the following connection diagram:



Connect the 128x64 LCD Display with the Microcontroller compatible with Raspberry Pi as shown on the following connection diagram:



6. Precautions

- This device is susceptible to Electro-Static Discharge (ESD) damage. Observe Anti-Static precautions.
- Do not apply excessive force to display surface or the adjoining areas since this may cause the color tone to vary.
- The polarizer covering display surface of the LCD module is soft and easily scratched. Handle this polarizer carefully.
- If display surface becomes contaminated, breathe on the surface and gently wipe it with a soft dry cloth. If it is heavily contaminated, moisten cloth with Isopropyl or alcohol.
- Solvents other than those above-mentioned may damage the polarizer. Especially, do not use the Water.
- Exercise care to minimize corrosion of the electrode. Corrosion of the electrodes is accelerated by water droplets, moisture condensation or a current flow in a high-humidity environment.
- Install LCD Module by using the mounting holes. When mounting the LCD module make sure it is free of twisting, warping and distortion. In particular, do not forcibly pull or bend the cable or the backlight cable.
- Do not attempt to disassemble or process LCD module.
- NC terminal should be open. Do not connect anything.
- If the logic circuit power is off, do not apply the input signals.
- To prevent destruction of the elements by static electricity, be careful to maintain an optimum work environment.
- Be sure to ground the body when handling LCD modules.
- Tools required for assembling, such as soldering irons, must be properly grounded.

To reduce the amount of static electricity generated, do not conduct assembling and other work under dry conditions.

- The LCD module is coated with a film to protect the display surface. Exercise care when peeling off this protective film since static electricity may be generated.

- 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.
- Use a clean power source free from transients. Power-up conditions are occasionally jolting and may exceed the maximum ratings of these LCD modules.
- The VDD power of LCD module should also supply the power to all devices that may access the display. Do not allow the data bus to be driven when the logic supply to the module is turned off.
- Operate this LCD module within the limits of the modules temperature specifications.
- Surface of the LCD panel should not be touched or scratched. The display front surface is an easily scratched, plastic polarizer.
- Always employ anti-static procedure while handling EastRising module.
- Do not store in direct sunlight.
- If leakage of the liquid crystal material should occur, avoid contact with this material, particularly ingestion. If the body or clothing becomes contaminated by the liquid crystal material, wash thoroughly with water and soap.
- When storing the LCD modules, avoid exposure to direct sunlight or to the light of fluorescent lamps.
- Keep LCD modules in bags (avoid high temperature / high humidity and low temperatures below 0°C.
- 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 LCD 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.
- Please keep the temperature within specified range for use and storage. Polarization degradation, bubble generation or polarizer peel-off may occur with high temperature and high humidity.
- Do not touch, push or rub the exposed polarizers with anything harder than an HB pencil lead (glass, tweezers, etc.).



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