

Waveshare LCD1602 I2C display module, 16x2 character LCD, AiP31068 driver, 3.3-5V | grey



Waveshare LCD1602 I2C Module (Grey) The Waveshare LCD1602 I2C Module is a character LCD display with 16 characters in 2 z... Everything for your DIY projects.

Product number WS-30495

Weight 0.03kg

Product description

Waveshare LCD1602 I2C Module (Grey)

The Waveshare LCD1602 I2C Module is a character LCD display with 16 characters in 2 lines. It utilises an I2C interface, requiring only two signal lines to save the controller's IO resources. The module is equipped with a variable backlight and supports an operating voltage of 3.3 V to 5 V. It has the AiP31068 LCD driver and the SN3193 backlight driver.

The I2C interface makes it easy to control the display with microcontrollers and single-board computers with limited IO pins. The variable backlight enables better adaptation to different lighting conditions. The display offers a monochrome display with various colour combinations.

The module can be used for various applications, for example to display sensor data, status information or for simple menu navigation in DIY and IoT projects. It is compatible with Raspberry Pi, Raspberry Pi Pico, Jetson Nano, ESP32 and Arduino, which makes it versatile for use in embedded systems.

Features at a glance

- Character LCD with 16 characters × 2 lines
- I2C interface for easy control with only two signal lines
- Supports an operating voltage of 3.3 V to 5 V
- AiP31068 LCD driver and SN3193 backlight driver
- Adjustable backlight
- Suitable for Raspberry Pi, Raspberry Pi Pico, Jetson Nano, ESP32 and Arduino

Compatibility

- Raspberry Pi
- Raspberry Pi Pico 2
- Jetson Nano
- ESP32
- Arduino



Technical Data

- Communication interface: I2C
- Operating voltage: 3.3 V ~ 5 V
- LCD driver: AiP31068
- Backlight driver: SN3193
- Display type: Character LCD
- Number of characters: 16 × 2
- Backlight: adjustable
- Operating temperature: -20 to +70 °C
- Display size: 64.5 × 16.0 mm
- Module dimensions: 87.0 × 32.0 × 13.0 mm

I2C control interface

Only two signal lines are required, which saves IO resources.

- **VCC:** 3.3 V ~ 5 V Power supply
- **GND:** Ground (GND)
- **SCL:** I2C clock line
- **SDA:** I2C data line

Other data

- Supports various platforms and provides demos and instructions for development

Scope of delivery

- 1x LCD1602 I2C module (grey)
- 1x PH2.0 4PIN cable

Links to

- [Product Wiki](#)

Product properties

Gross Weight (kg)	0.03
Color	grey
Country of Origin	China
Brand	Waveshare
Display Size	16x2 Zeichen LCD
Zolltarifnummer	85285900
Product ID	WS-30495
Manufacturer ID	LCD1602 I2C Module (Gray)

More images

