

1.9inch LCD Display Module, 170x320 Resolution, SPI Interface, IPS, 262K Colors

SKU: 23822

Part Number: 1.9inch LCD Module

Brand: Waveshare

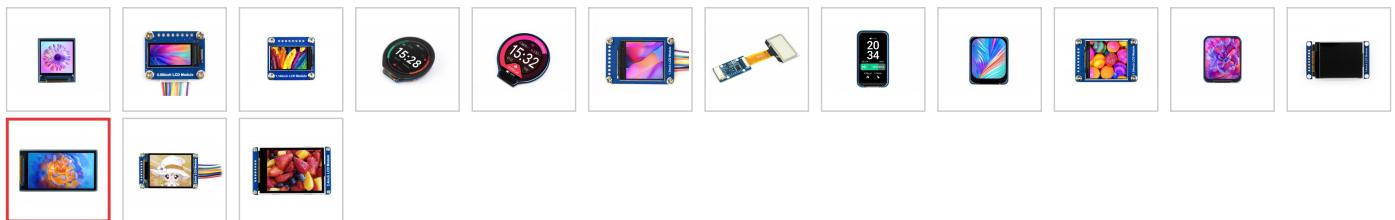
\$11.99

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\$11.59	10+
\$11.39	50+
\$11.31	100+

Related Products:

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DESCRIPTION**PACKAGE CONTENT****1.9inch LCD Display Module, 170x320 Resolution, SPI Interface, IPS, 262K Colors**

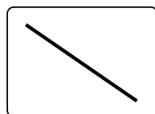
1.9inch LCD Display Module

Embedded ST7789V2 Driver Chip, Using SPI Interface

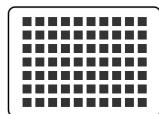
Comes with examples for Raspberry Pi, Arduino, STM32, etc.



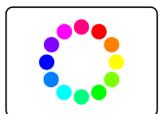
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Size

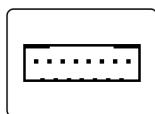
1.9"

Resolution

170×320

Display Color

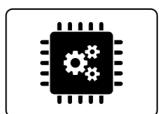
262K

Interface

SPI

Display Panel

IPS

Driver

ST7789V2

Features At A Glance

- 170×320 resolution, 262K colors, clear and colorful displaying effect
- SPI interface, minimizes required IO pins, supports controller boards like Raspberry Pi/Arduino/STM32
- Comes with online development resources (examples for Raspberry Pi/Arduino/STM32)

Specifications

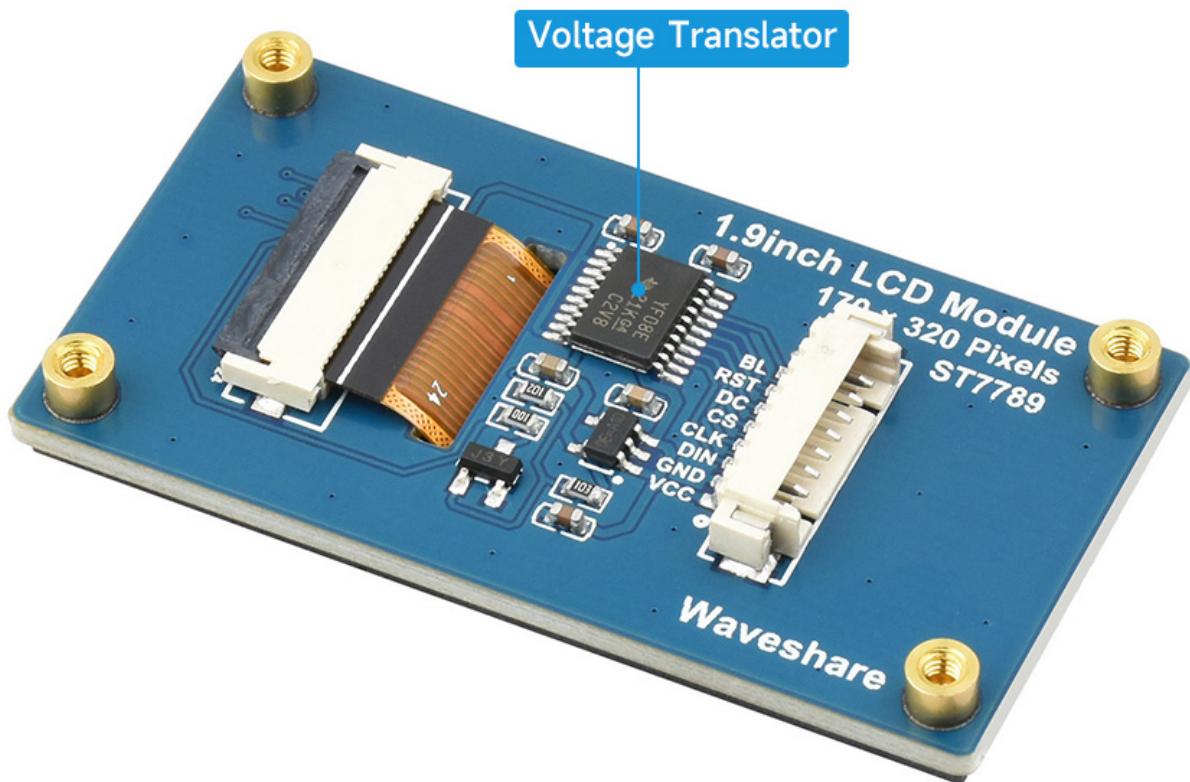
OPERATING VOLTAGE	3.3V / 5V	RESOLUTION	170 × 320 pixels
COMMUNICATION INTERFACE	4-wire SPI	DISPLAY SIZE	22.70 × 42.72 mm
DISPLAY PANEL	IPS	PIXEL SIZE	0.1335 × 0.1335 mm

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DRIVER	ST7789V2	MODULE SIZE	27.3 × 51.2mm
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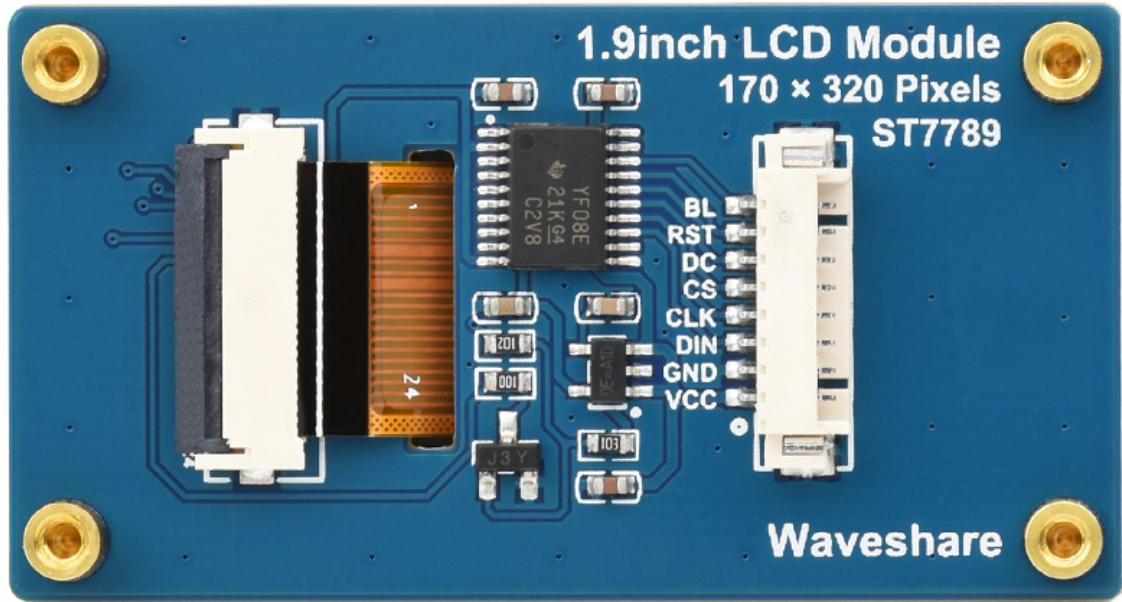
Onboard Voltage Translator

Compatible With 3.3V / 5V Power Input



Onboard SPI Control Interface

For Use With Controller Boards Like Raspberry Pi / Arduino / STM32

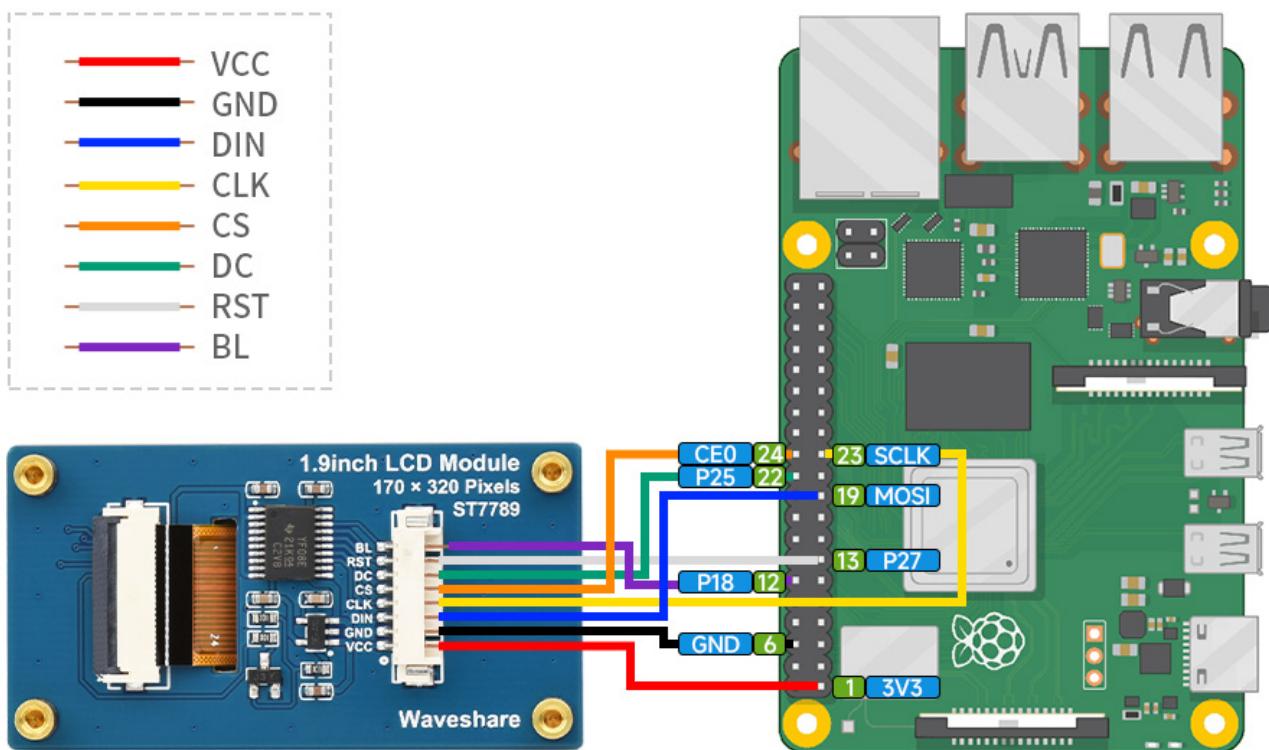


BL	Backlight
RST	Reset, low active
DC	Data/Command selection (high for data, low for command)
CS	Chip selection, low active
CLK	SPI clock input
DIN	SPI data input
GND	Ground
VCC	Power (3.3V / 5V input)

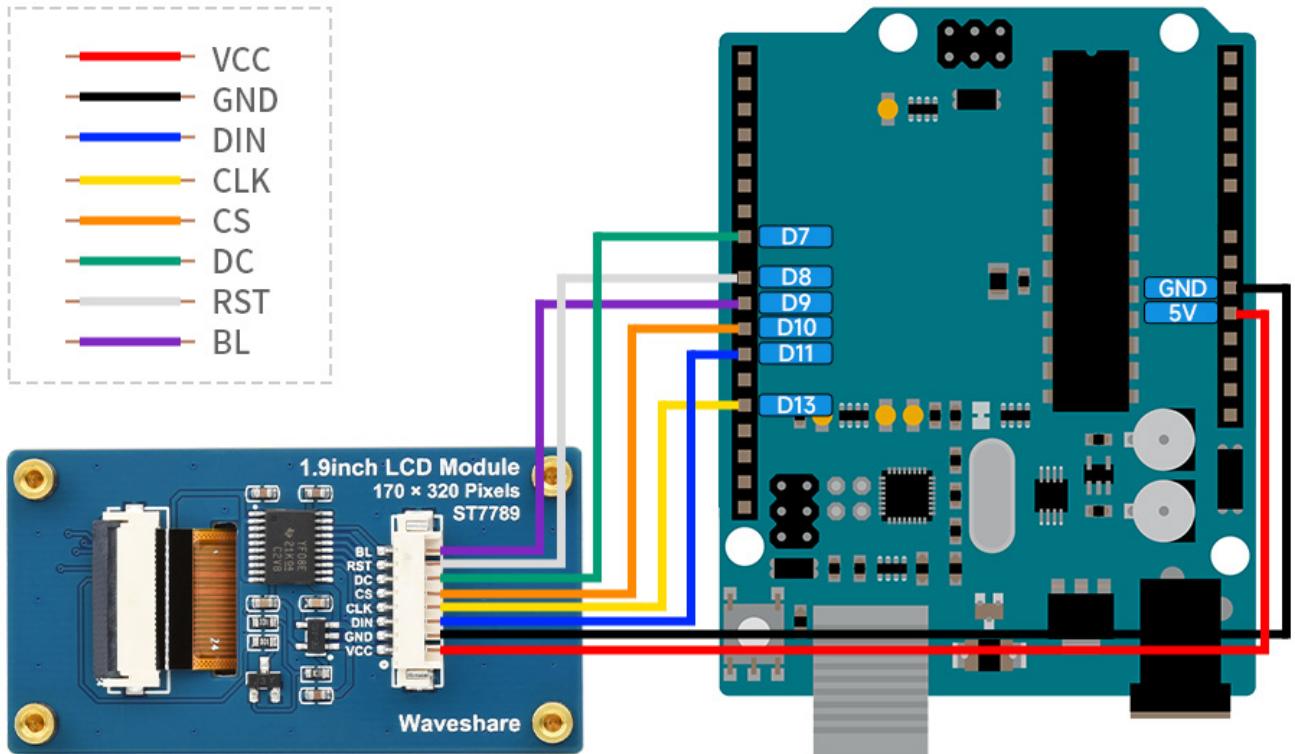
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Hardware Connection

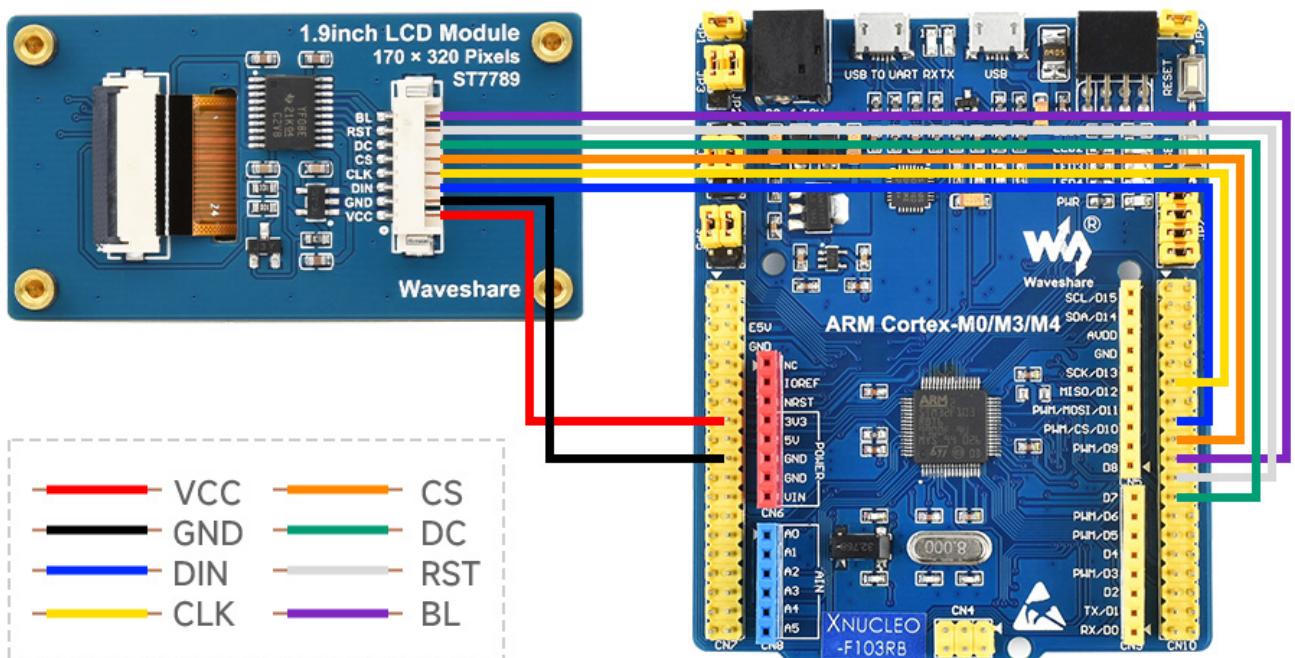
Connecting With Raspberry Pi



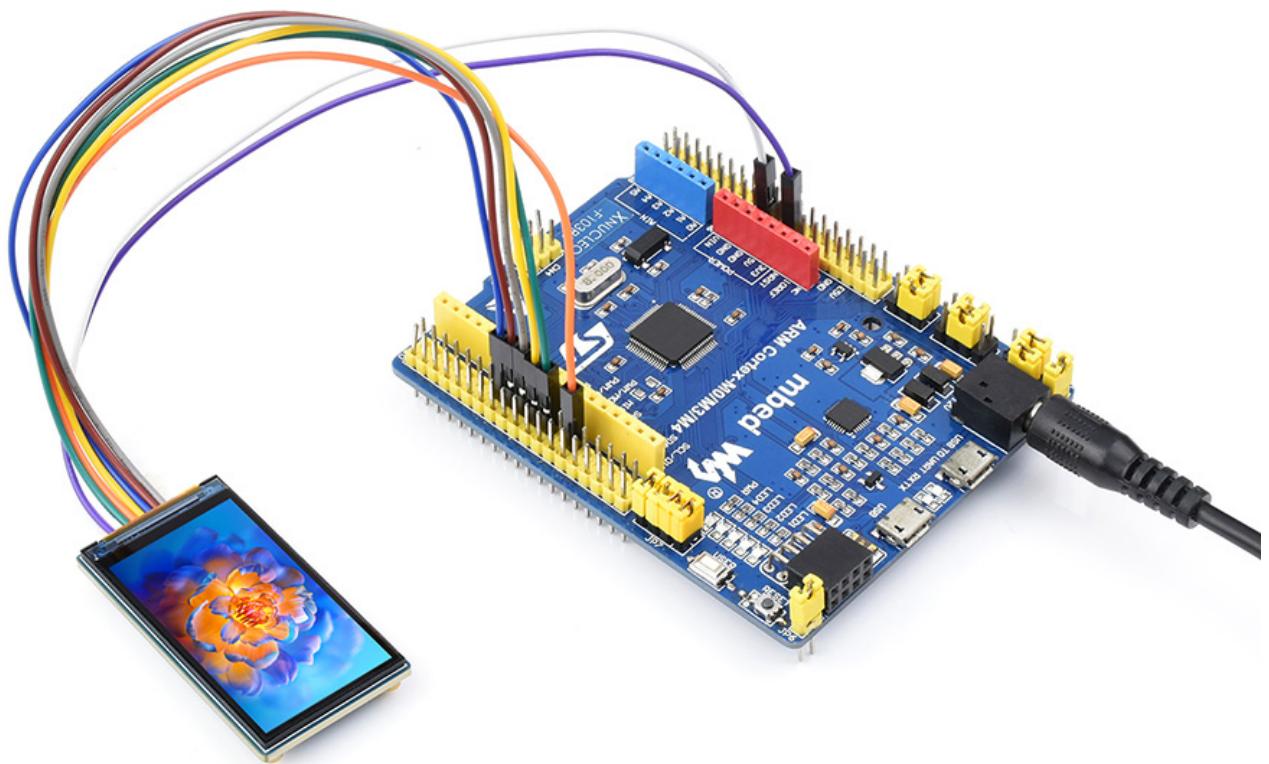
Connecting With Arduino Board



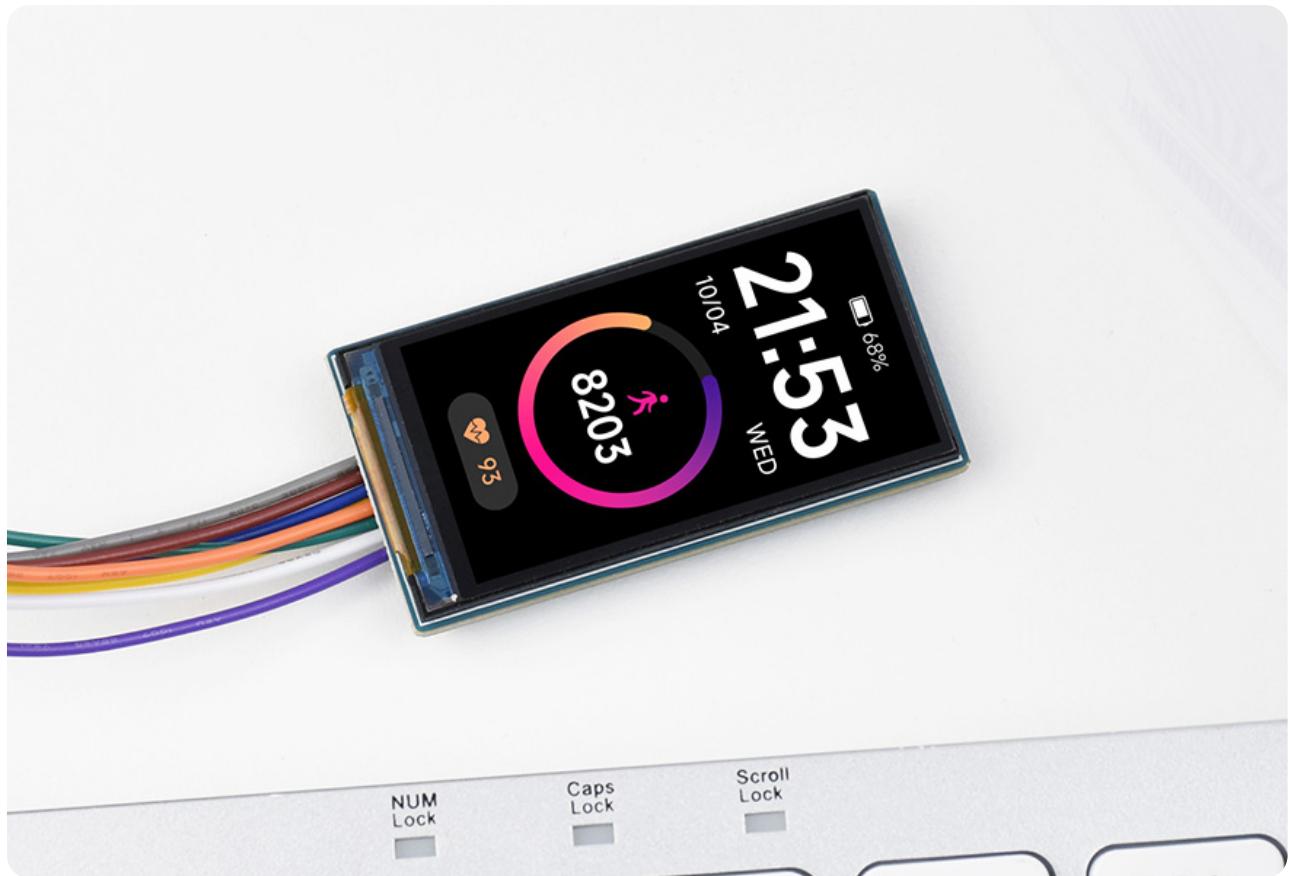
Connecting With STM32



Usage Example



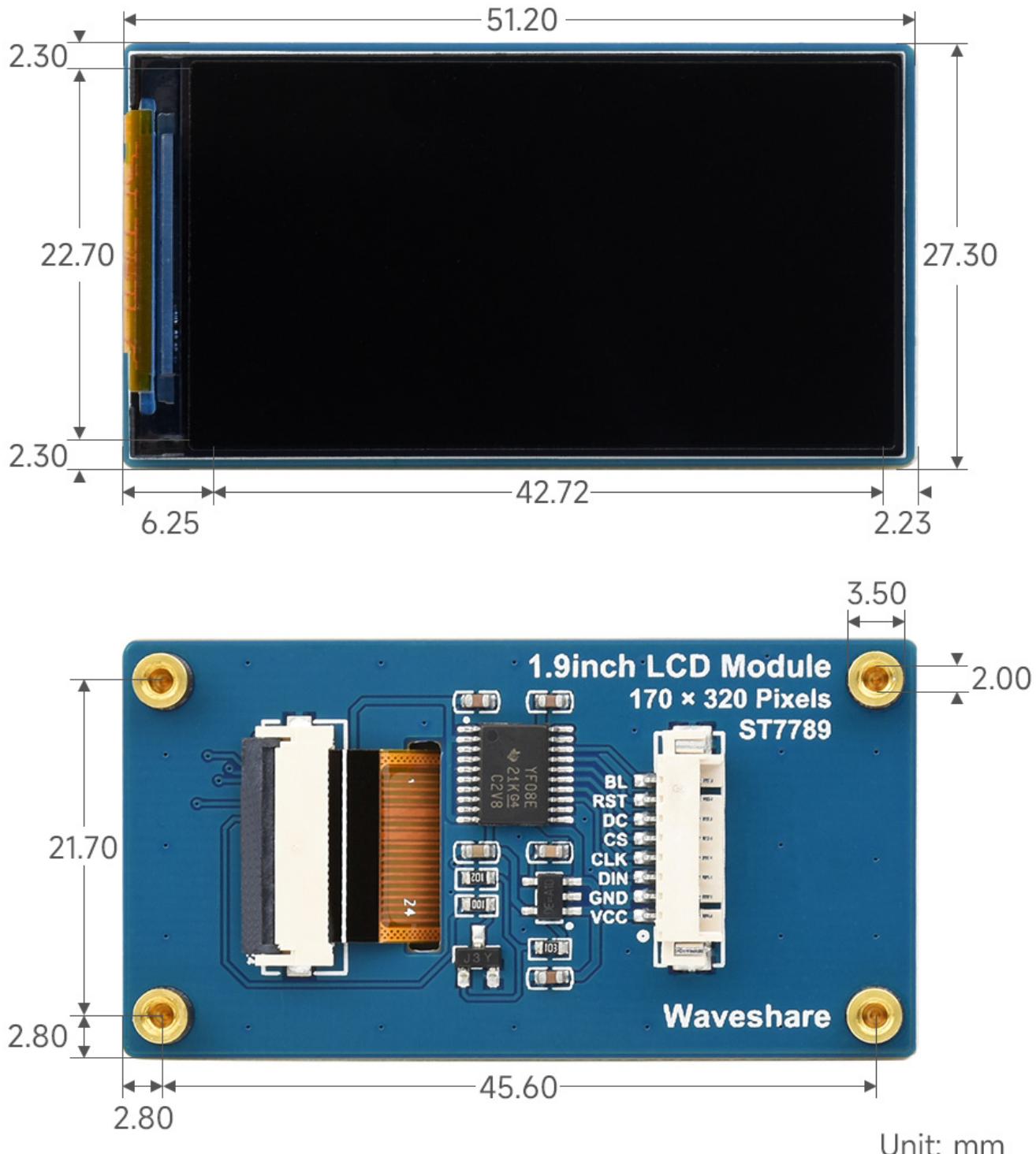
Product Show



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Outline Dimensions



Resources & Services



WAVESHARE
ORIGINAL



PROFESSIONAL
TECH SUPPORT



RICH RESOURCES
MANUAL & DEMO

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Wiki: www.waveshare.com/wiki/1.9inch_LCD_Module

Selection Guide

PART NUMBER	TYPE	COLOR	RESOLUTION	DISPLAY SIZE (MM×MM)	INTERFACES	DRIVER	DIMENSION (MM×MM)	PINHEADER
0.85inch LCD Module	IPS	65K colorful	128×128	15.21×15.21	4-wire SPI	GC9107	19.0×22.5	GH1.25 connector
0.91inch OLED Module	OLED	White	128×32	22.38×5.58	I2C	1306	36.0×12.5	PH2.0 connector
0.95inch RGB OLED (A)	OLED	65K colorful	96×64	20.14×13.42	SPI(4-wire SPI)	1331	31.7×37.0	angled/horizontal
0.95inch RGB OLED (B)	OLED	65K colorful	96×64	20.14×13.42	SPI(4-wire SPI)	1331	31.7×37.0	straight/vertical
0.96inch LCD Module	IPS	65K colorful	160×80	21.70×10.80	4-wire SPI	ST7735S	32.5×26.0	PH2.0 connector
0.96inch OLED (A)	OLED	1/4 yellow section, 3/4 blue section*	128×64	21.7×11.2	3-wire SPI, 4-wire SPI, I2C	1306	33.0×33.5	angled/horizontal
0.96inch OLED (B)	OLED	1/4 yellow section, 3/4 blue section*	128×64	21.7×11.2	3-wire SPI, 4-wire SPI, I2C	1306	33.0×33.5	straight/vertical
0.96inch OLED Module (C)	OLED	1/4 yellow section, 3/4 blue section*	128×64	21.74×11.18	4-wire SPI, I2C	SSD1315	26.0×26.0	straight/vertical
0.96inch OLED Module (D)	OLED	White	128×64	21.74×11.18	4-wire SPI, I2C	SSD1315	26.0×26.0	straight/vertical
0.96inch OLED Module (E)	OLED	Blue	128×64	21.74×11.18	4-wire SPI, I2C	SSD1315	26.0×26.0	straight/vertical
0.96inch RGB OLED Module	OLED	65K colorful	64×128	10.862×21.736	3/4-wire SPI	SSD1357	32.5×26.0	GH1.25 connector
1.14inch LCD Module	IPS	65K colorful	240×135	24.91×14.86	4-wire SPI	ST7789	35.0×32.0	PH2.0 connector
1.27inch RGB OLED Module	OLED	262K colorful	128×96	25.708×19.28	3/4-wire SPI	SSD1351	42.2×29.0	GH1.25 connector
1.28inch LCD Module	IPS	65K colorful	240×240	Φ32.4mm	4-wire SPI	GC9A01	40.4×37.5 Φ37.5	PH2.0 connector
1.28inch Touch LCD	IPS (with touch)	65K colorful	240×240	Φ32.4mm	4-wire SPI, I2C	GC9A01, CST816S	39.89×38.5 Φ38.5	GH1.25 connector
1.3inch LCD Module	IPS	65K colorful	240×240	23.40×23.40	4-wire SPI	ST7789	45.0×31.0	PH2.0 connector
1.3inch OLED (A)	OLED	Blue	128×64	29.42×14.7	3-wire SPI, 4-wire SPI, I2C	SH1106	40.5×37.5	angled/horizontal
1.3inch OLED (B)	OLED	Blue	128×64	29.42×14.7	3-wire SPI, 4-wire SPI, I2C	SH1106	40.5×37.5	straight/vertical
1.3inch OLED Module (C)	OLED	White	64×128	14.70×29.42	4-wire SPI, I2C	SH1107	30.0×39.5	PH2.0 connector
1.32inch OLED Module	OLED	White (16 gray scale)	128×96	26.86×20.14	4-wire SPI, I2C	SSD1327	34.3×30.5	GH1.25 connector
1.47inch LCD Module	LCD	262K colorful	172×320	17.39×32.35	4-wire SPI	ST7789V3	22.0×38.5	PH2.0 connector
1.5inch LCD Module	IPS	262K colorful	240×280	24.77×28.90	4-wire SPI	NV3030B	28.5×35.0	GH1.25 connector
1.5inch OLED Module	OLED	White (16 gray scale)	128×128	26.86×26.86	4-wire SPI, I2C	1327	44.5×37.0	PH2.0 connector
1.5inch OLED Module (B)	OLED	White	128×128	26.855×26.855	4-wire SPI, I2C	SH1107	38.5×44.5	GH1.25 connector
1.5inch RGB OLED Module	OLED	65K colorful	128×128	26.86×26.86	3-wire SPI, 4-wire SPI	1351	44.5×37.0	PH2.0 connector
1.54inch LCD Module	IPS	65K colorful	240×240	27.72×27.72	4-wire SPI	ST7789	50.0×35.0	PH2.0 connector
1.54inch OLED Module	OLED	White	128×64	35.05×17.52	4-wire SPI, I2C	SSD1309	43.0×37.5	GH1.25 connector
1.54inch OLED Module (B)	OLED	Blue	128×64	35.05×17.52	4-wire SPI, I2C	SSD1309	43.0×37.5	GH1.25 connector

1.69inch LCD Module	IPS	262K colorful	240×280	27.97×32.63	4-wire SPI	ST7789V2	31.5×39.0	GH1.25 connector
1.8inch LCD Module	TFT	65K colorful	128×160	34.50×28.30	4-wire SPI	ST7735S	56.5×34.0	PH2.0 connector
1.9inch LCD Module	IPS	262K colorful	170×320	22.70×42.72	4-wire SPI	ST7789V2	51.2×27.3	GH1.25 connector
2inch LCD Module	IPS	262K colorful	240×320	30.60×40.80	4-wire SPI	ST7789	58.0×35.0	PH2.0 connector
2.4inch LCD Module	TFT	65K colorful	240×320	36.72×48.96	4-wire SPI	ILI9341	70.5×43.3	PH2.0 connector
2.42inch OLED Module	OLED	White	128×64	55.01×27.49	4-wire SPI, I2C	SSD1309	61.50×39.50	GH1.25 connector
2.42inch OLED Module (C)	OLED	Yellow	128×64	55.01×27.49	4-wire SPI, I2C	SSD1309	61.50×39.50	GH1.25 connector

*Note: the 0.96inch OLED consists of 1/4 yellow upper section and 3/4 blue lower section, not a regular dual-color display.

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