

1.28inch Round LCD Display Module with Touch panel, 240x240 Resolution, IPS, SPI And I2C Communication

SKU: 24155

Part Number: 1.28inch Touch LCD

Brand: Waveshare

\$18.99

Online

DESCRIPTION**1 PACKAGE****ADD TO CART****\$18.59**

10+

\$18.39

50+

\$18.31

100+

Related Products:**1.28inch Round LCD Display Module With Touch Panel, 240x240 Resolution, IPS, SPI And I2C Communication**

1.28inch Touch LCD Display Module

Embedded GC9A01 Driver And CST816S Capacitive Touch Control Chip
Using SPI And I2C Communication Respectively

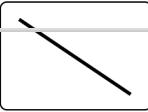
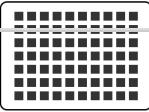
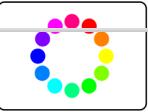
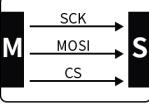
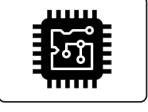
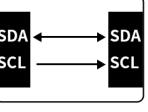
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DESCRIPTION**PACKAGE**

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



Online

Size	Resolution DESCRIPTION	Display Color	Display Panel	PACKAGE
				
1.28"	240×240	65K	IPS	
Display Driver	Display Inte...	Touch Driver	Touch Interf...	
				
GC9A01	SPI	CST816S	I2C	

Features At A Glance

- 240×240 resolution, 65K colors, clear and colorful displaying effect
- High touch screen transmittance, fast response and long lifetime
- Embedded GC9A01 driver chip and CST816S capacitive touch control chip, using SPI and I2C communication respectively, minimizes required IO pins, supports controller boards like Raspberry Pi/Raspberry Pi Pico/Arduino/STM32
- Comes with online development resources and manual (examples for Raspberry Pi/Raspberry Pi Pico/Arduino/STM32)

Specifications

OPERATING VOLTAGE	3.3V / 5V	RESOLUTION	240 × 240 pix
			Online

DISPLAY DRIVER	DESCRIPTION	DISPLAY INTERFACE	4-wire SPI	PACKAGE
TOUCH DRIVER	CST816S	TOUCH INTERFACE	I2C	
DISPLAY PANEL	IPS	TOUCH TYPE	Capacitive	
DISPLAY SIZE	Φ32.4mm	PIXEL SIZE	0.135 × 0.135 mm	
MODULE SIZE	39.89 × 38.50mm Φ38.50mm			

Small Size, Touch More Possibilities

Suitable For Various Smart Devices Development, Can Realize Human-Computer Interaction Function

Online



Control Interfaces

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

Online

DESCRIPTION**PACKAGE**

VCC	Power (3.3V / 5V input)
GND	Ground
MISO	SPI MISO pin
MOSI	SPI MOSI pin
SCLK	SPI Clock pin
LCD_CS	LCD Chip Selection, low active

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	LCS_DC	DESCRIPTION		PACKAGE
	LCS_RST	LCD Reset, low active		
	LCS_BL	LCD Backlight		
	TP_SDA	TP Data pin		
	TP_SCL	TP Clock pin		
	TP_INT	TP Interrupt pin		
	TP_RST	TP Reset, low active		

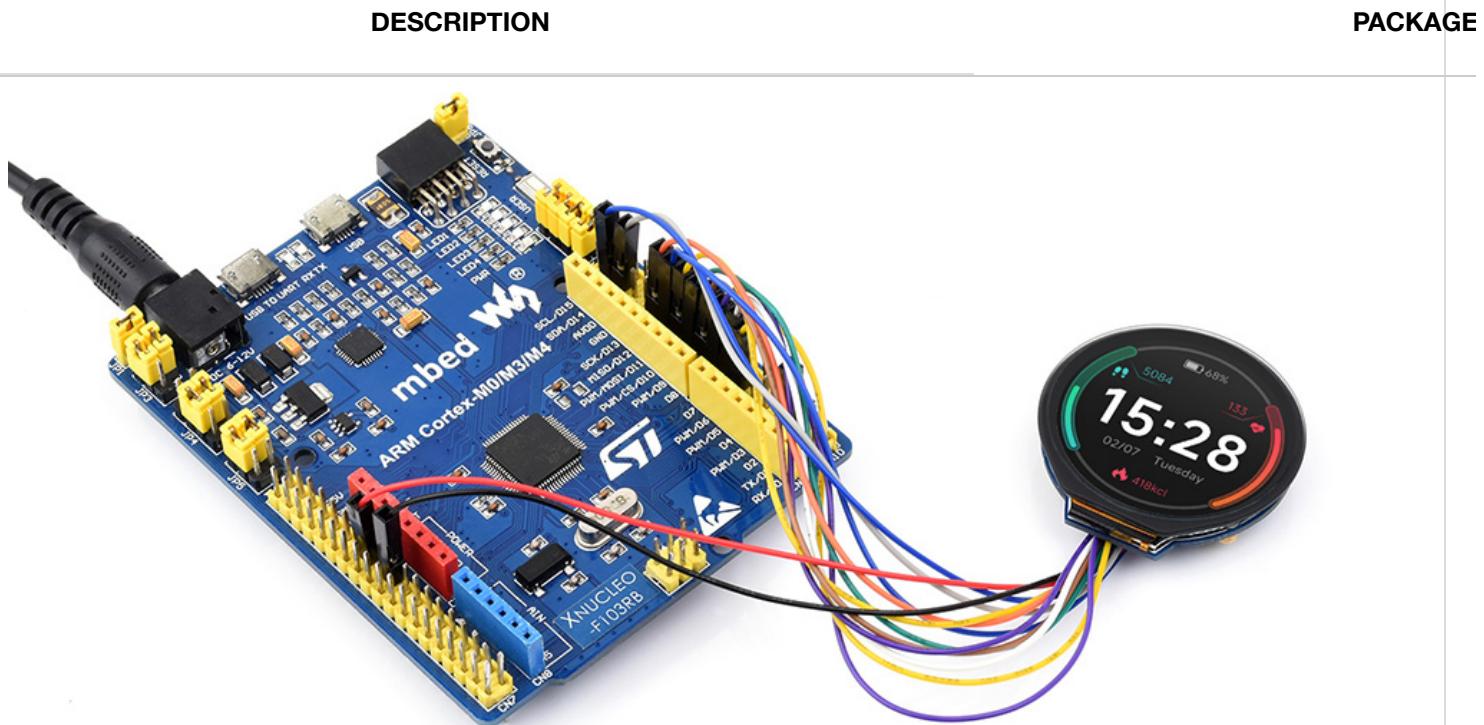
Pin Connection Reference

1.28INCH TOUCH LCD	RASPBERRY PI (BCM)	PICO	ARDUINO	STM32
VCC	3.3V	3.3V	5V	3.3V
GND	GND	GND	GND	GND
MISO	9	GP12	12	P^ ^o Online

	MOSI	DESCRIPTION	10	GP11	11	PA7	PACKAGE
	SCLK		11	GP10	13	PA5	
	LCS_CS		8	GP9	10	PB6	
	LCS_DC		25	GP14	7	PA8	
	LCS_RST		27	GP8	8	PA9	
	LCS_BL		18	GP15	9	PC7	
	TP_SDA		2	GP6	SDA	PB9	
	TP_SCL		3	GP7	SCL	PB8	
	TP_INT		4	GP17	3	PB10	
	TP_RST		17	GP16	4	PA10	

Usage Example

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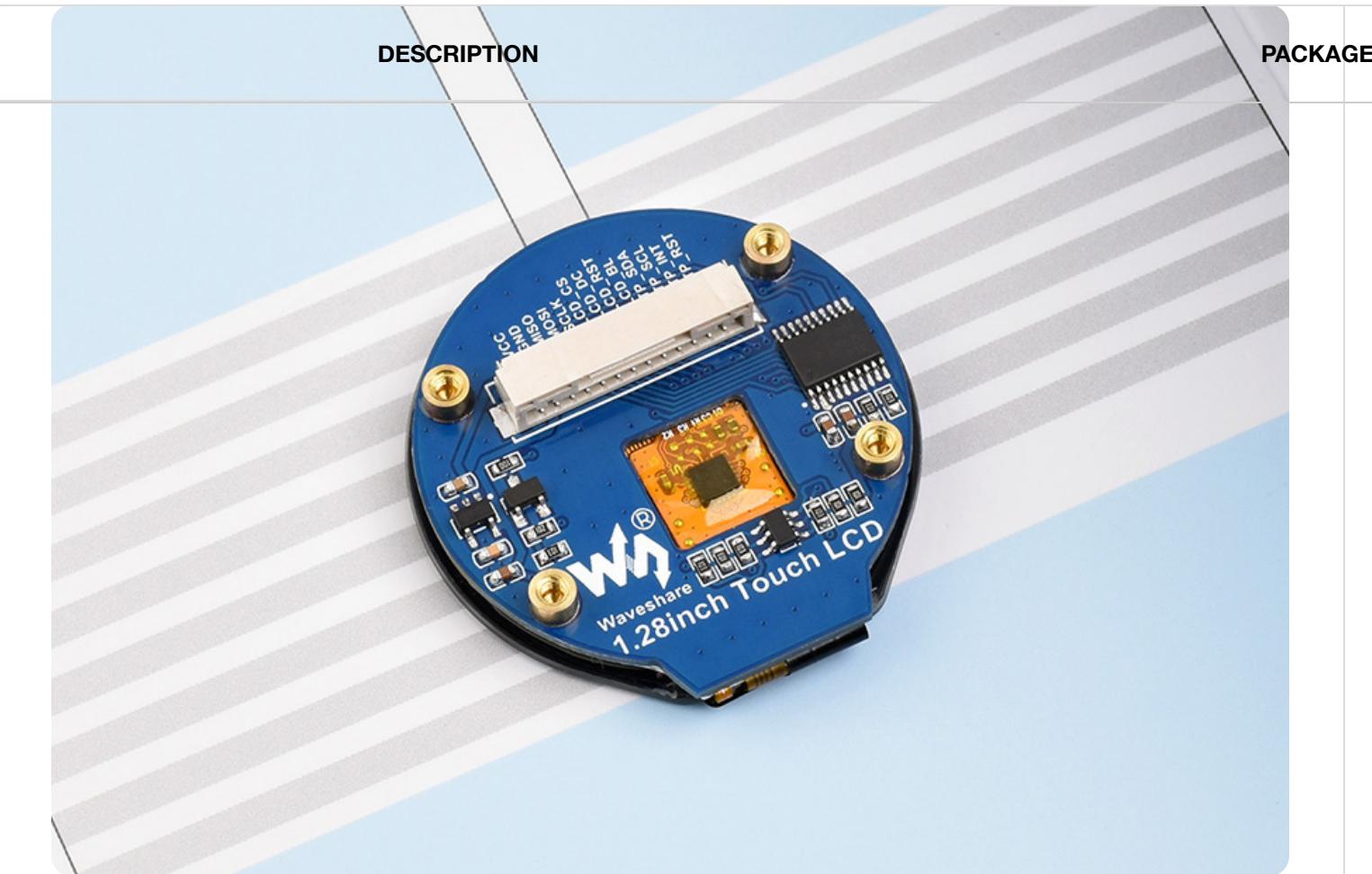


Product Show

Online

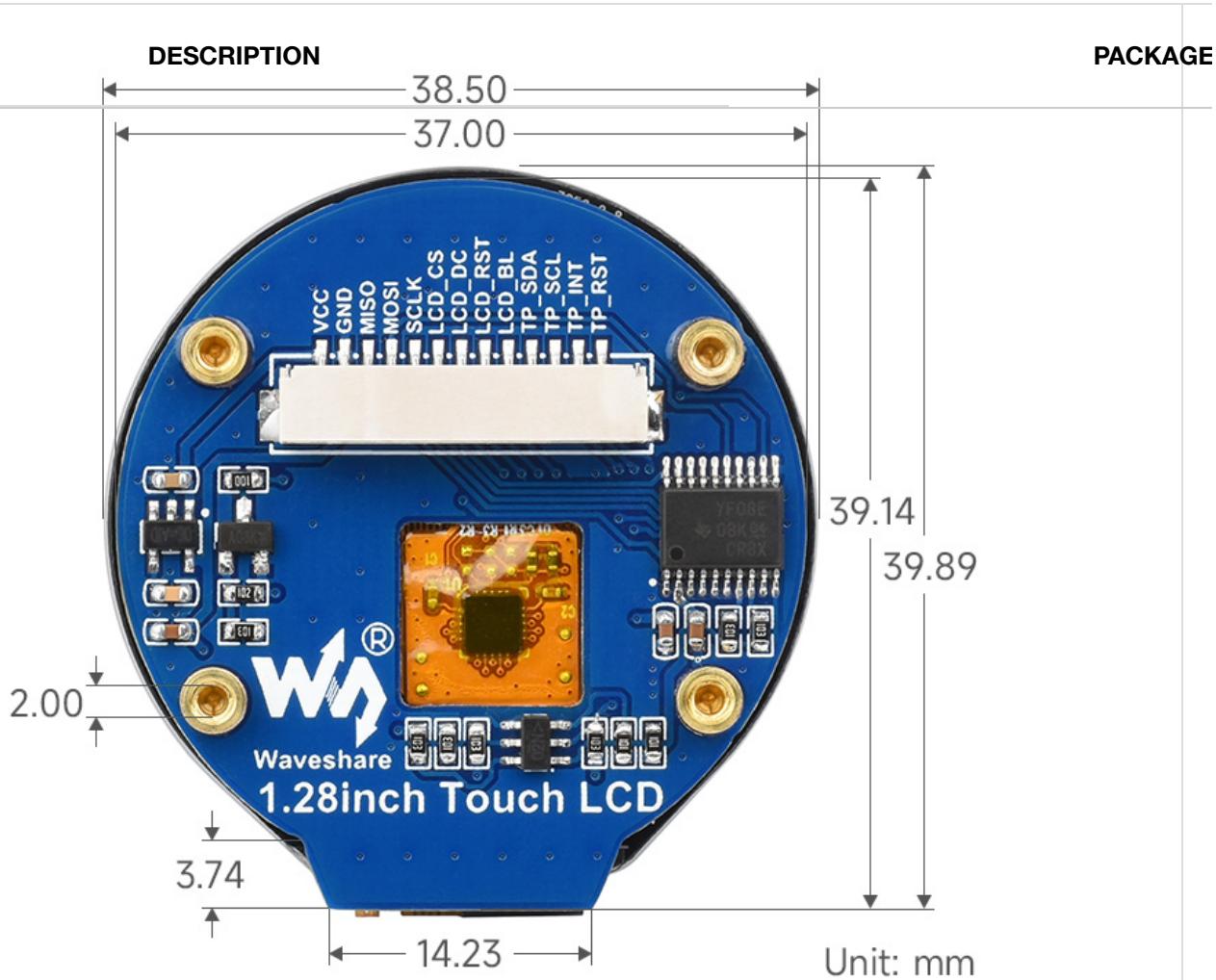
DESCRIPTION**PACKAGE**

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Outline Dimensions

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Resources & Services



WAVESHARE
ORIGINAL



PROFESSIONAL
TECH SUPPORT



RICH RESOURCES
MANUAL & DEMO

Wiki: www.waveshare.com/wiki/1.28inch_Touch_LCD

Online

Selection Guide**DESCRIPTION****PACKAGE**

PART NUMBER	TYPE	COLOR	RESOLUTION	DISPLAY SIZE (MM×MM)	INTERFACES	DRIVER	DIMENSION (MM×MM)	PINHEADER
0.85inch LCD Module	IPS	65K colorful	128x128	15.21x15.21	4-wire SPI	GC9107	19.0x22.5	GH1.25 connector
0.91inch OLED Module	OLED	White	128x32	22.38x5.58	I2C	1306	36.0x12.5	PH2.0 connector
0.95inch RGB OLED (A)	OLED	65K colorful	96x64	20.14x13.42	SPI(4-wire SPI)	1331	31.7x37.0	angled/horizontal
0.95inch RGB OLED (B)	OLED	65K colorful	96x64	20.14x13.42	SPI(4-wire SPI)	1331	31.7x37.0	straight/vertical
0.96inch LCD Module	IPS	65K colorful	160x80	21.70x10.80	4-wire SPI	ST7735S	32.5x26.0	PH2.0 connector
0.96inch OLED (A)	OLED	1/4 yellow section, 3/4 blue section*	128x64	21.7x11.2	3-wire SPI, 4-wire SPI, I2C	1306	33.0x33.5	angled/horizontal
0.96inch OLED (B)	OLED	1/4 yellow section, 3/4 blue section*	128x64	21.7x11.2	3-wire SPI, 4-wire SPI, I2C	1306	33.0x33.5	straight/vertical
0.96inch OLED Module (C)	OLED	1/4 yellow section, 3/4 blue section*	128x64	21.74x11.18	4-wire SPI, I2C	SSD1315	26.0x26.0	straight/vertical
0.96inch OLED Module (D)	OLED	White	128x64	21.74x11.18	4-wire SPI, I2C	SSD1315	26.0x26.0	straight/vertical
0.96inch OLED Module (E)	OLED	Blue	128x64	21.74x11.18	4-wire SPI, I2C	SSD1315	26.0x26.0	straight/vertical
0.96inch RGB OLED Module	OLED	65K colorful	64x128	10.862x21.736	3/4-wire SPI	SSD1357	32.5x26.0	GH1.25 connector
1.14inch LCD Module	IPS	65K colorful	240x135	24.91x14.86	4-wire SPI	ST7789	35.0x32.0	PH2.0 connector
1.27inch RGB OLED Module	OLED	262K colorful	128x96	25.708x19.28	3/4-wire SPI	SSD1351	42.2x29.0	GH1.25 connector
1.28inch LCD Module	IPS	65K colorful	240x240	Φ32.4mm	4-wire SPI	GC9A01	40.4x37.5 Φ37.5	PH2.0 connector
1.28inch Touch LCD	IPS (with touch)	65K colorful	240x240	Φ32.4mm	4-wire SPI, I2C	GC9A01, CST816S	39.89x38.5 Φ38.5	GH1.25 connector
1.3inch LCD Module	IPS	65K colorful	240x240	23.40x23.40	4-wire SPI	ST7789	45.0x31.0	Online PH2.0 connector

				DESCRIPTION							
	1.3inch OLED (A)	OLED	Blue	128x64	29.42x14.7	3-wire SPI, 4-wire SPI, I2C	SH1106	40.5x37.5	angled/horizontal		PACKAGE
	1.3inch OLED (B)	OLED	Blue	128x64	29.42x14.7	3-wire SPI, 4-wire SPI, I2C	SH1106	40.5x37.5	straight/vertical		
	1.3inch OLED Module (C)	OLED	White	64x128	14.70x29.42	4-wire SPI, I2C	SH1107	30.0x39.5	PH2.0 connector		
	1.32inch OLED Module	OLED	White (16 gray scale)	128x96	26.86x20.14	4-wire SPI, I2C	SSD1327	34.3x30.5	GH1.25 connector		
	1.47inch LCD Module	LCD	262K colorful	172x320	17.39x32.35	4-wire SPI	ST7789V3	22.0x38.5	PH2.0 connector		
	1.5inch LCD Module	IPS	262K colorful	240x280	24.77x28.90	4-wire SPI	NV3030B	28.5x35.0	GH1.25 connector		
	1.5inch OLED Module	OLED	White (16 gray scale)	128x128	26.86x26.86	4-wire SPI, I2C	1327	44.5x37.0	PH2.0 connector		
	1.5inch OLED Module (B)	OLED	White	128x128	26.855x26.855	4-wire SPI, I2C	SH1107	38.5x44.5	GH1.25 connector		
	1.5inch RGB OLED Module	OLED	65K colorful	128x128	26.86x26.86	3-wire SPI, 4-wire SPI	1351	44.5x37.0	PH2.0 connector		
	1.54inch LCD Module	IPS	65K colorful	240x240	27.72x27.72	4-wire SPI	ST7789	50.0x35.0	PH2.0 connector		
	1.54inch OLED Module	OLED	White	128x64	35.05x17.52	4-wire SPI, I2C	SSD1309	43.0x37.5	GH1.25 connector		
	1.54inch OLED Module (B)	OLED	Blue	128x64	35.05x17.52	4-wire SPI, I2C	SSD1309	43.0x37.5	GH1.25 connector		
	1.69inch LCD Module	IPS	262K colorful	240x280	27.97x32.63	4-wire SPI	ST7789V2	31.5x39.0	GH1.25 connector		
	1.8inch LCD Module	TFT	65K colorful	128x160	34.50x28.30	4-wire SPI	ST7735S	56.5x34.0	PH2.0 connector		
	1.9inch LCD Module	IPS	262K colorful	170x320	22.70x42.72	4-wire SPI	ST7789V2	51.2x27.3	GH1.25 connector		
	2inch LCD Module	IPS	262K colorful	240x320	30.60x40.80	4-wire SPI	ST7789	58.0x35.0	PH2.0 connector		
	2.4inch LCD Module	TFT	65K colorful	240x320	36.72x48.96	4-wire SPI	ILI9341	70.5x43.3	PH2.0 connector		
	2.42inch OLED Module	OLED	White	128x64	55.01x27.49	4-wire SPI, I2C	SSD1309	61.50x39.50	GH1.25 connector		
	2.42inch OLED Module (C)	OLED	Yellow	128x64	55.01x27.49	4-wire SPI, I2C	SSD1309	61.50x39.50	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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DESCRIPTION**PACKAGE**

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