DESCRIPTION PACKAC











RP2040 MCU Board, With 1.28inch Round LCD, accelerometer and gyroscope Sensor

SKU: 22668

Part Number: RP2040-LCD-1.28

Brand: Waveshare

\$16.99

1ADD TO CART

\$16.59

2+

\$16.39	DESCRIPTION	PAČKAC
\$16.31		4+

Related Products:





















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RP2040 MCU Board, With 1.28inch Round LCD, Accelerometer And Gyroscope Sensor

RP2040 MCU Board With LCD

DESCRIPTION Based on Raspberry Pi RP2040

PACKA(











Dual-core Dual-core ARM Cortex M0+

Type-C Port 240 x 240 Pixels 65K RGB

Features

PACKAG

DESCRIPTION RP2040-LCD-1.28 is a low-cost, high-performance MCU board designed by Waveshare. Tiny size with onboard 1.28inch LCD round display, Li-ion battery recharge manager, 6-axis sensor (3axis accelerometer and 3-axis gyroscope) and so on, adapting all GPIO and Debug pins, which makes it easy for you to develop and integrate it into products quickly.

Key features include:

- RP2040 microcontroller chip designed by Raspberry Pi in the United Kingdom
- Dual-core Arm Cortex M0+ processor, flexible clock running up to 133 MHz
- 264KB of SRAM, and 2MB of on-board Flash memory
- Type-C connector, keeps it up to date, easier to use
- Onboard 1.28inch 240×240 pixels 65K colorful IPS LCD display for clear color pictures
- Lithium battery recharge/discharge header, suitable for mobile devices
- All GPIO pins are adapted through 1.27 pitch female headers (There are 30 pins in total, but some pins have been connected to the internal circuit, please refer to the wiki for details when multiplexing)
- USB 1.1 with device and host support
- · Low-power sleep and dormant modes
- Drag-and-drop programming using mass storage over USB
- 2 x SPI, 2 x I2C, 2 x UART, 4 x 12-bit ADC, 16 x controllable PWM channels
- · Accurate clock and timer on-chip
- Temperature sensor
- · Accelerated floating-point libraries on-chip
- 8 × Programmable I/O (PIO) state machines for custom peripheral support

C/C++, MicroPython Support

Comprehensive SDK, Dev Resources, Tutorials To Help You Easily Get Started





Pico C/C++ SDK

The Raspberry Pi official C SDK can be used from the command line, or from popular integrated development environments like Visual Studio Code and Eclipse.



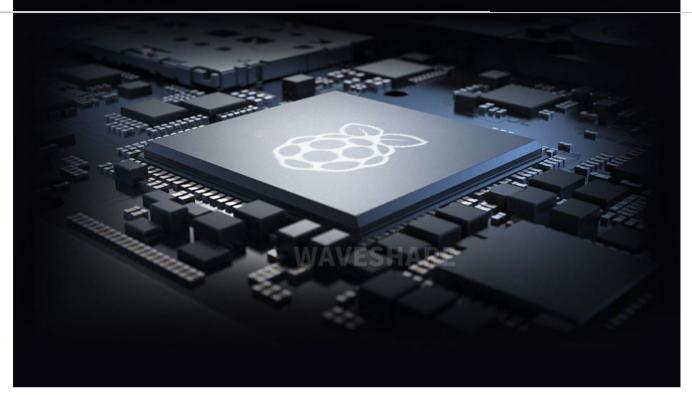
MicroPython

MicroPython is a full implementation of the Python 3 programming language that runs directly on embedded hardware like Raspberry Pi Pico.

Dual-Core Arm Processor

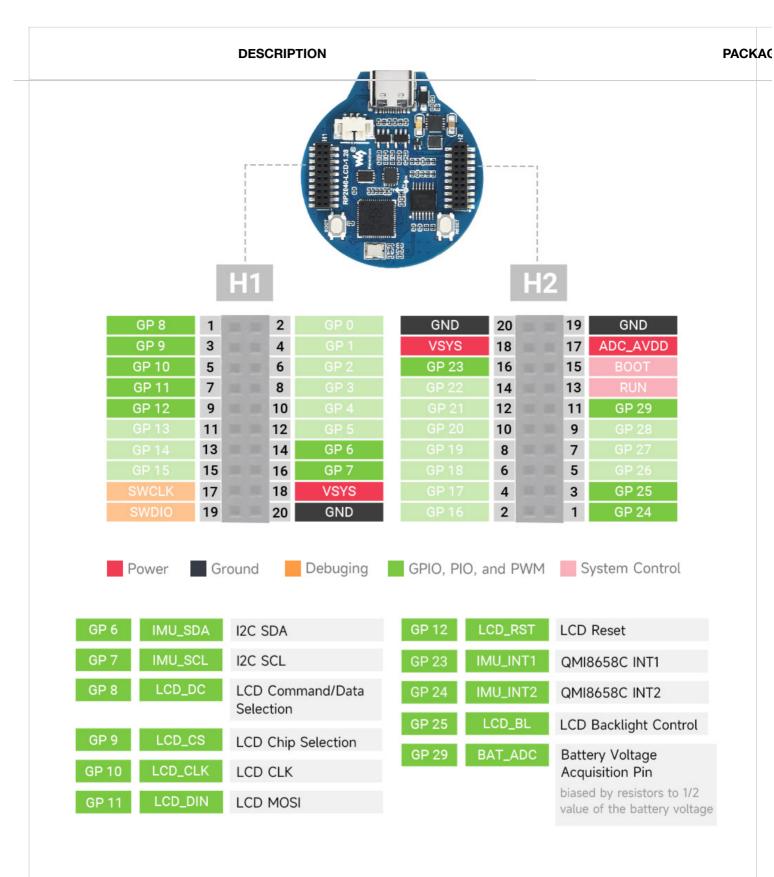
Dual-Core Arm Cortex M0+ Processor, Flexible Clock Running Up To 133 MHz

DESCRIPTION

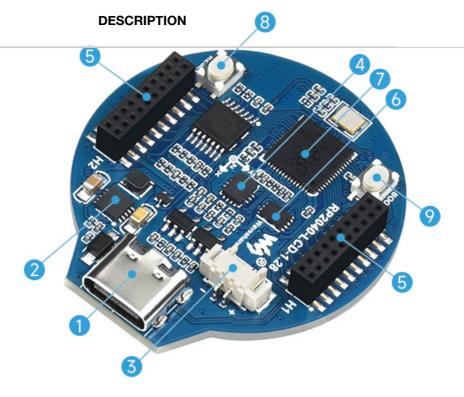


30 × Multi-Function GPIO Pins

Configurable Pin Function, Allows Flexible Development And Integration



What's On Board



1. USB Type-C connector

USB 1.1 with device and host support

2. ETA6096

high efficiency Lithium battery recharge manager

3. Battery Header

MX1.25 header, for 3.7V Lithium battery, allows recharging the battery and powering the board at the same time

4. QMI8658C

IMU, includes a 3-axis gyroscope and a 3-axis accelerometer

5. 1.27mm pitch headers

Adapting all GPIO and Debug pins

6. W25Q16JVUXIQ

2MB NOR-Flash

7. **RP2040**

Dual-core processor, up to 133MHz operating frequency

8. RESET Button

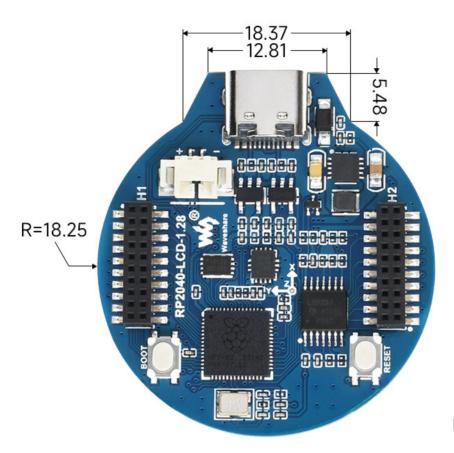
9. **BOOT Button**

press it when resetting to enter download mode

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Outline Dimensions

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Unit:mm

Resources & Services







Wiki: www.waveshare.com/wiki/RP2040-LCD-1.28

Pico Product Selection

PRODI	MAIN	DESCRIPTION REGULATOR	IISB	FI ASH	PSRAM	LITHIUM BATTERY	PACKA ONBOARD
		CHIP				HEADER	LCD

	RP2040	DESCRIPTION					PACKAC
RASPBERRY PI PICO H		DC-DC, 800mA	Micro USB	2MB	-	-	-

	DESCRIPTION DC-DC,	Micro				PACKA
RASPBERRY PI PICO W	3000mA	USB	2MB	-	-	with WIFI
RASPBERRY PI PICO	DC-DC, 800mA	Micro USB	2MB	-	-	-
TYPE-A VER.	LDO, 500mA	Type- A	4MB	-	-	-
MINI VER.	LDO, 800mA	Type- C	2MB	-	-	-
ROUND LCD VER.	LDO, 300mA	Type- C	2MB	-	Support(allows recharging the battery and powering the board at the same time)	1.28inch IPS LCD
LCD VER.	DC-DC, 1800mA	Type- C	2MB	-	Support(allows recharging the battery and powering the board at the same time)	0.96inch IPS LCD
PLUS VER.	DC-DC, 1800mA	Type- C	4MB/16MB	-	Support(allows recharging the battery and powering the board at the same time)	-

DESCRIPTION			PACKAC