

MAKER PI PICO

Simplifying Raspberry Pi Pico for Beginner





MAKER-PI-PICO

MAKER-PI-PICO-NB

Datasheet

Rev 1.2 March 2021

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1. BOARD LAYOUT & FUNCTION

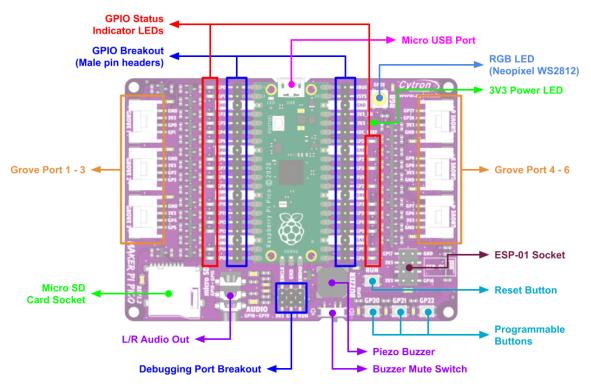


Figure 1: MAKER-PI-PICO Board Functions

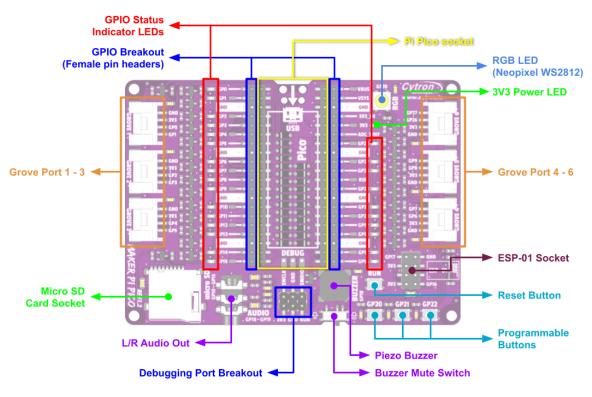


Figure 2: MAKER-PI-PICO-NB Board Functions

Function	Description						
Micro USB Port *MAKER-PI-PICO only	Used to power up the Maker Pi Pico and upload programs from PC.						
3V3 Power LED	LED indicator for 3V3. Turn on when powered up.						
GPIO LEDs	LED indicator for Raspberry Pi Pico GPIO. Turn on when the GPIO state is high.						
WS2812B RGB LED	User programmable WS2812B RGB LED. Connected to GP28.						
GPIO Breakout	Breakout of the Raspberry Pi Pico GPIO pins. * MAKER-PI-PICO = Male Pin Headers * MAKER-PI-PICO-NB = Female Pin Headers						
Debugging Port Breakout	Breakout of the Raspberry Pi Pico debugging port.						
Reset Button	Press to reset the Raspberry Pi Pico.						
Programmable Buttons	Connected to pin GP20, GP21 and GP22 respectively. Accessible from the user program. * Rev1.0.0 to 1.1.0 = To enable internal pull-up in software. * Rev1.2.0 = Pulled-up permanently on hardware with debouncing capacitor.						
Piezo Buzzer	Can be used to play tone or melody. Connected to GP18.						
Buzzer Mute Switch	Used to mute the piezo buzzer.						
Audio Out	Non amplified audio output. Can be connected to an earphone or amplified speaker. • Left Channel : GP18 • Right Channel : GP19						
ESP-01 Socket	Socket for ESP-01 ESP8266 WiFi module. Can be used to IoT-enabled your project.						
	Socket for micro SD Card.						
		Raspberry Pi	SD Card				
		Pico GPIO	SD Mode	SPI Mode			
Micro SD Card Socket		GP10 GP11 GP12 GP13 GP14 GP15	CLK CMD DAT0 DAT1 DAT2 CD/DAT3	SCK SDI SDO X X CSn			
	* Unused pins must be configured as internal pull-up.						
Pi Pico Socket *MAKER-PI-PICO-NB only	Socket for Raspberry Pi Pico. Can be used with <u>Raspberry Pi Pico with Pre-soldered Headers</u> .						

Table 1: MAKER-PI-PICO & MAKER-PI-PICO-NB Board Functions

2. RASPBERRY PI PICO PINOUT DIAGRAM

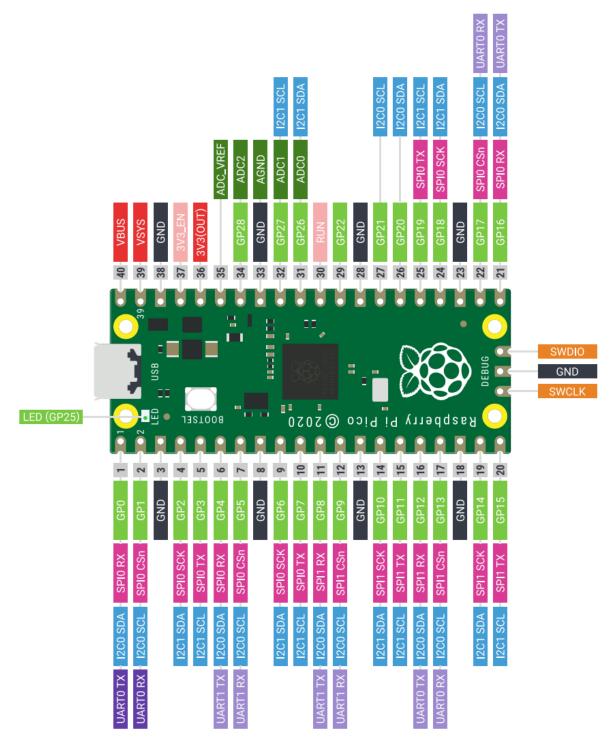


Figure 3: Raspberry Pi Pico Pinout Diagram

3. SPECIFICATIONS

No	Parameters			Max	Unit
1	Power Input Voltage (USB)			5.5	VDC
2		Low Level	-0.3	0.8	V
2	Digital Input Voltage	High Level	2.0	3.6	V
		Low Level	0	0.5	V
3	Digital Output Voltage	High Level	2.62	3.3	V
4	Analog Input Voltage			3.3	V
5	5 Operating Temperature			85	°C

Table 2: MAKER-PI-PICO Absolute Maximum Ratings

4. DIMENSION

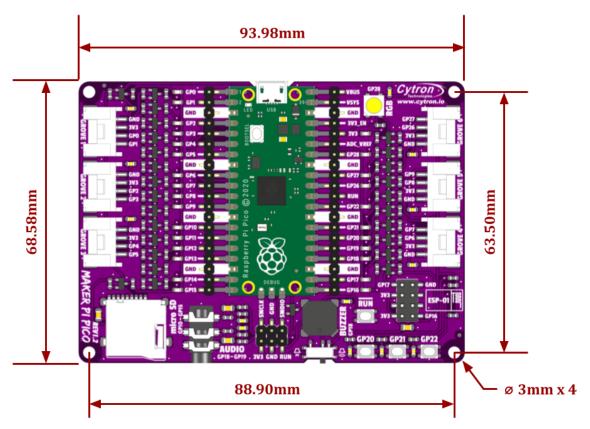


Figure 4: MAKER-PI-PICO Dimension

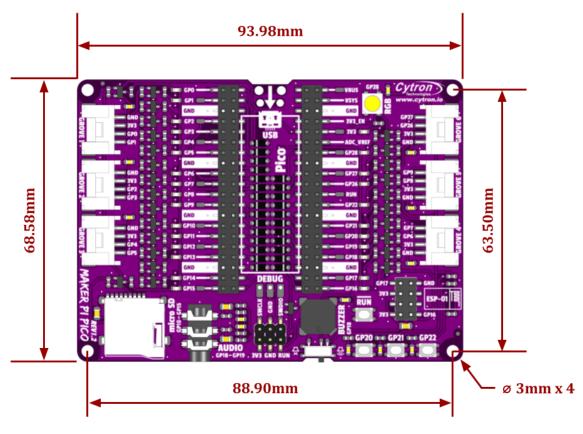


Figure 5: MAKER-PI-PICO Dimension

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