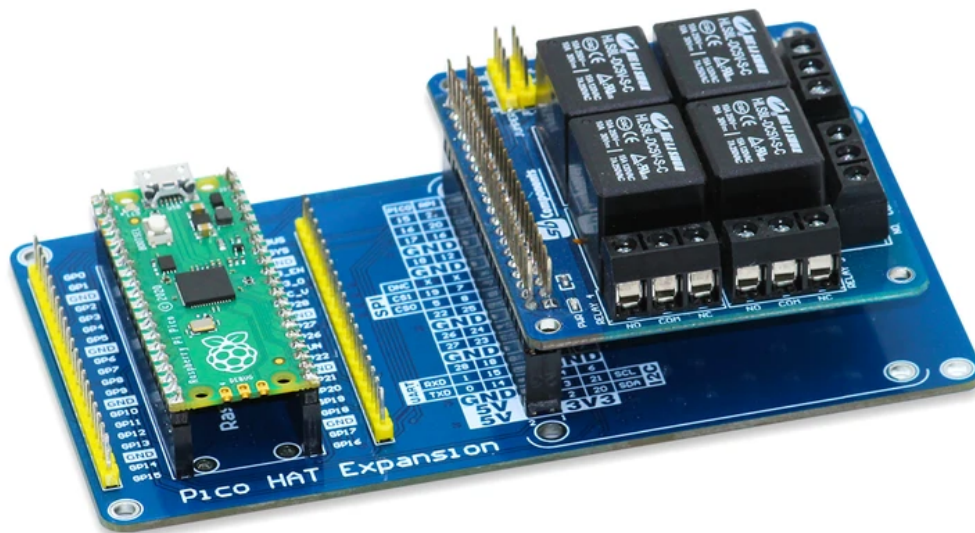


Raspberry Pi Pico HAT Expansion



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
















Raspberry Pi Pico HAT Expansion

Introduction

Raspberry Pi Pico HAT Expansion is an input/output expansion board designed for the Raspberry Pi Pico, which provides one set of 2x20 pin headers in the form of a Raspberry Pi Header along with one set of 2 x 20 pin. It means that one can plug any HAT designed for Raspberry Pi with the Raspberry Pi Pico via the Raspberry Pi Pico HAT Expansion that would make the user perform the advanced functions on it.

Raspberry Pi Pico HAT Expansion has the space on its board for any HAT. One can plug Raspberry Pi Pico and a HAT by directly putting it on the Raspberry Pi Pico HAT Expansion that has the power pins for the connection. Raspberry Pi Pico Expansion is a board on which, clear and descriptive pin labels make the process easier for the user.

Pin Out

	<i>PIN</i>	<i>RPi GPIO</i>	<i>PICO</i>		<i>PIN</i>	<i>RPi GPIO</i>	<i>PICO</i>
	1	3V3	3V3		2	5V	5V
I2C	3	GPIO2	GP20		4	5V	5V
	5	GPIO3	GP21		6	GND	GND
	7	GPIO4	GP6		8	GPIO14	GP0
	9	GND	GND		10	GPIO15	GP1
	11	GPIO17	GP7		12	GPIO18	GP28
	13	GPIO27	GP8		14	GND	GND
	15	GPIO22	GP9		16	GPIO23	GP27
	17	3V3	3V3		18	GPIO24	GP26
SPI	19	GPIO10	GP3		20	GND	GND
	21	GPIO9	GP4		22	GPIO25	GP22
	23	GPIO11	GP2		24	GPIO8	GP5
	25	GND	GND		26	GPIO7	GP19
	27	X	X		28	X	X
	29	GPIO5	GP10		30	GND	GND
	31	GPIO6	GP11		32	GPIO12	GP18
	33	GPIO13	GP12		34	GND	GND
	35	GPIO19	GP13		36	GPIO16	GP17
	37	GPIO26	GP14		38	GPIO20	GP16
	39	GND	GND		40	GPIO21	GP15

UART

CS

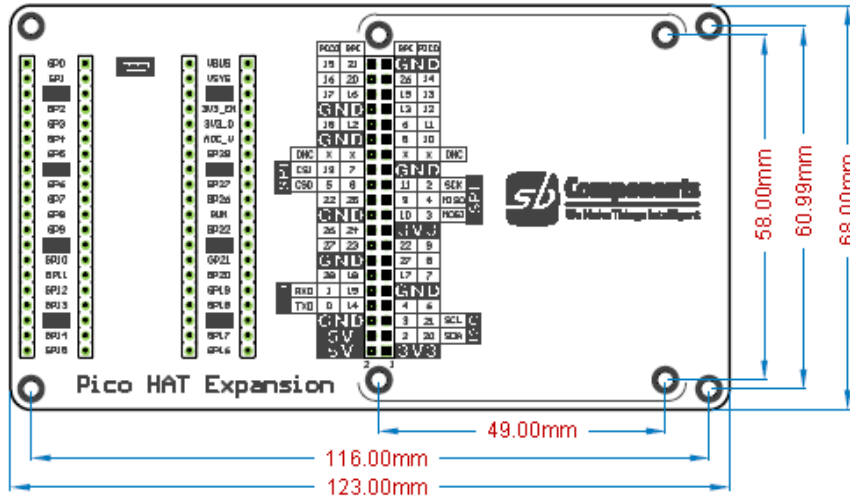
Features

- 2x20 pins header
- Clear and descriptive pin labels
- Connect any HAT
- Raspberry Pi Connector for connecting HAT

Specification

- Interface - 2x20 Male Berg Connector
- Compatibility - Raspberry Pi HAT/ Shield
- Connectors - Jumper Cable/ Stackable
- Compatible with Raspberry Pi Pico
- On-board female Header for Pico

Hardware Dimension



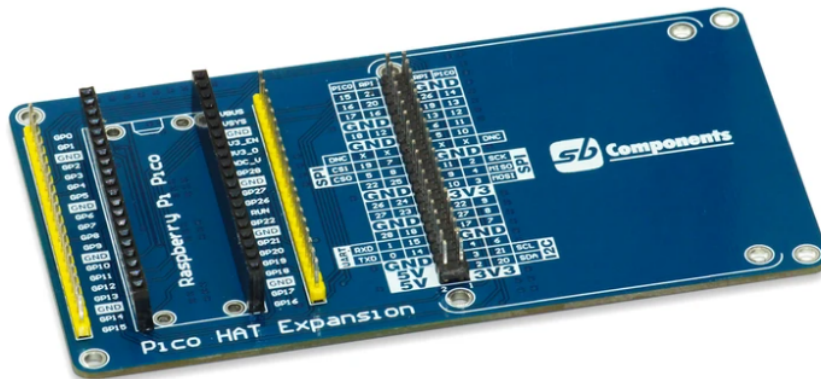
View from Front side (Scale 1:1)

View from Bottom side (Scale 1:1)

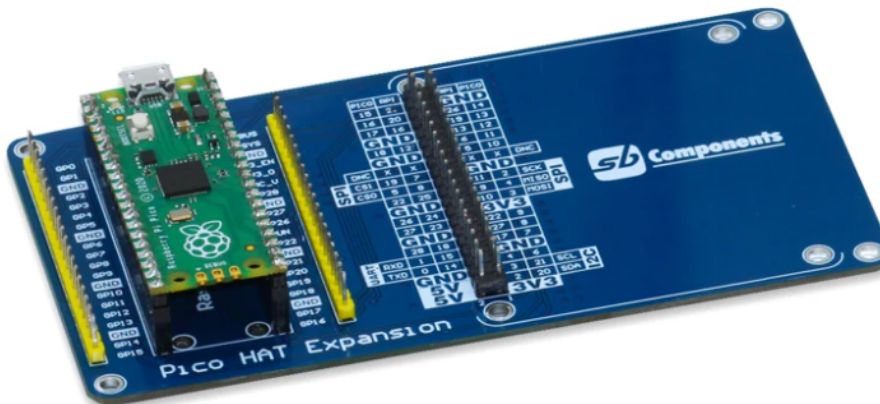


Installation Process

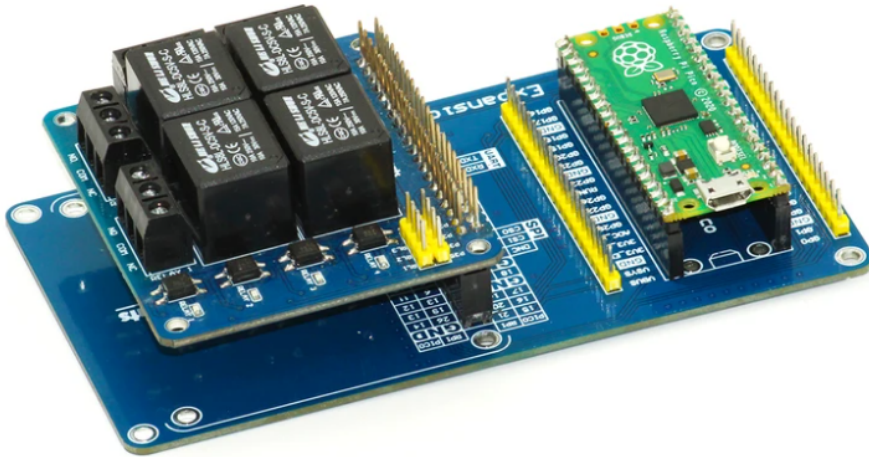
- Take Raspberry Pi Pico HAT Expansion



- Stack Raspberry Pi Pico on female 40 pins header of Raspberry Pi Pico HAT Expansion board as shown in picture below



- Stack any 40 pins Raspberry Pi compatible HAT on dedicated standard GPIO header as shown in picture below.



Note : Other than Power Pins and special purpose pins, all other GPIO Pins are not exactly the same as the Raspberry Pi. Please check the above Pinout diagram for actual pinout mapping for Raspberry Pi Pico.