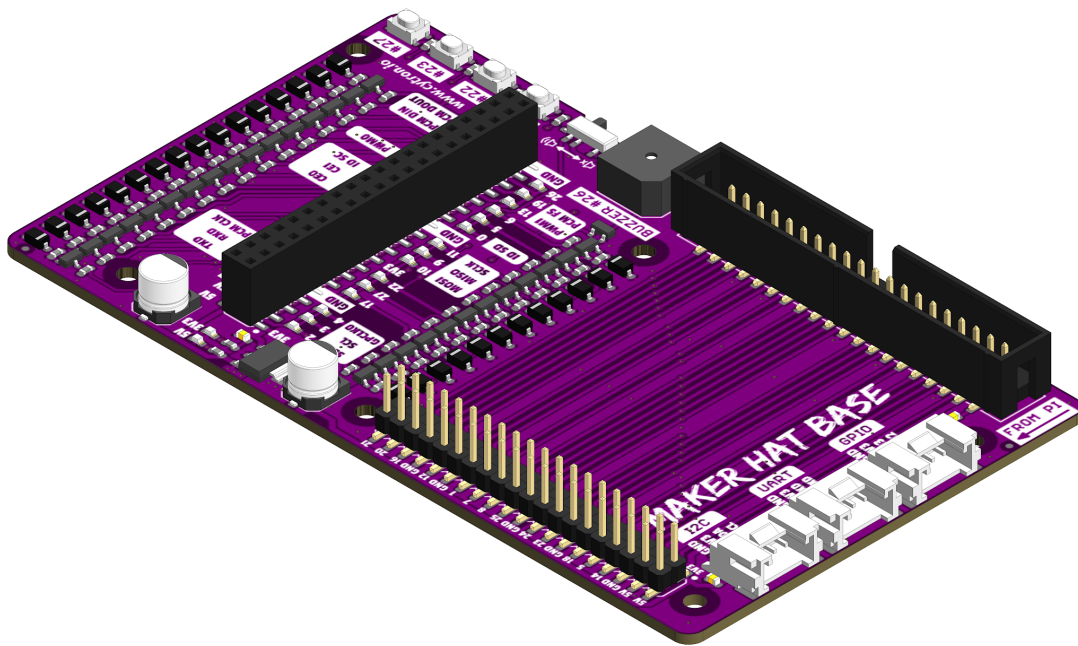




MAKER-HAT-BASE

HAT & GPIO Extension for Raspberry Pi 400

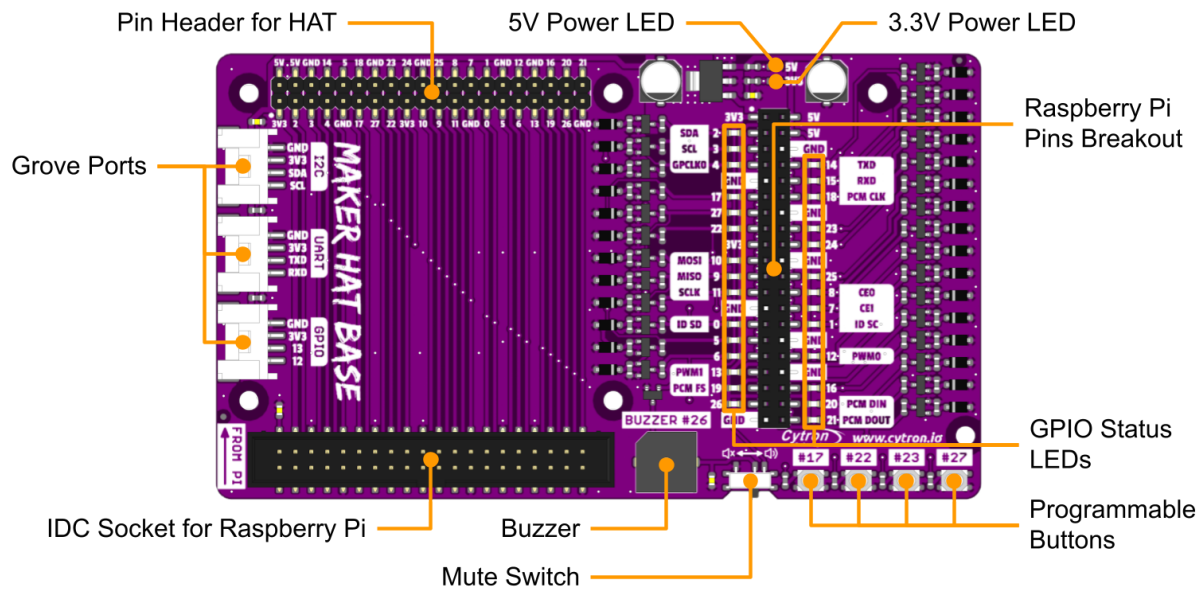


Datasheet

Rev 1.0
September 2021

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1. BOARD LAYOUT & FUNCTION

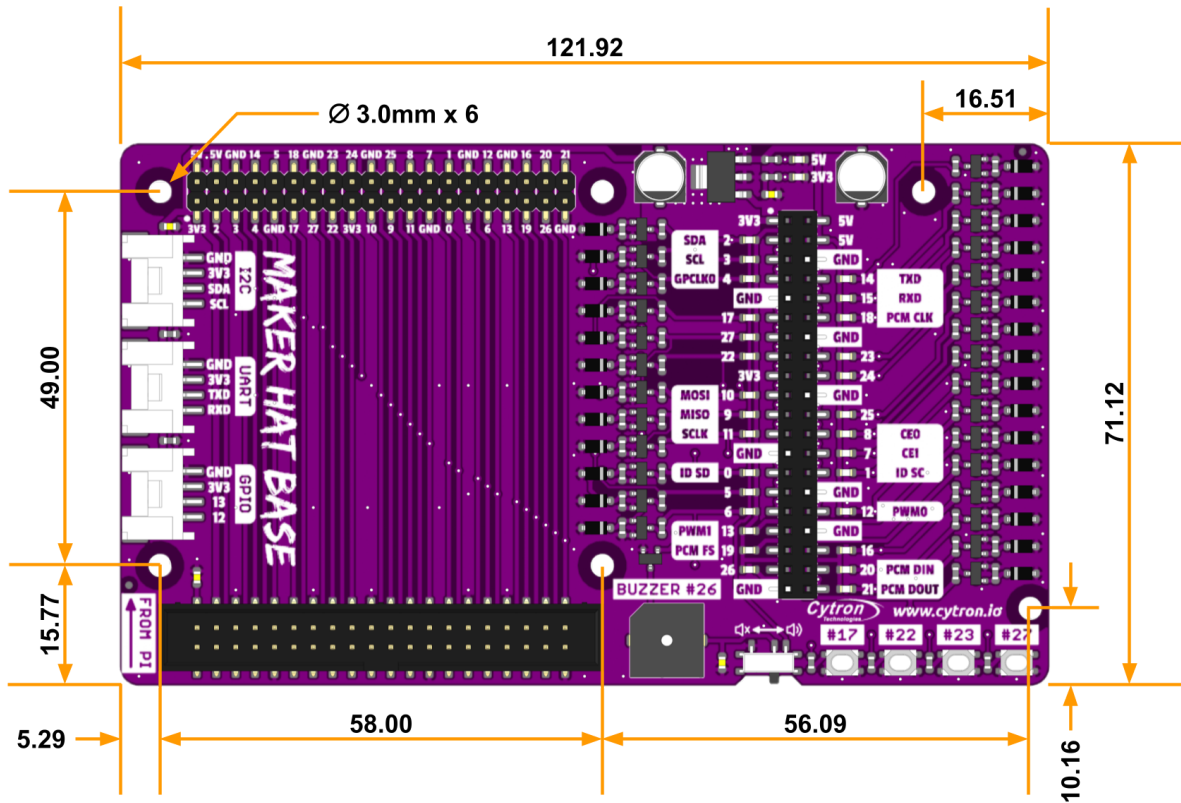


Function	Description
Pin Header for HAT	Stack the Raspberry Pi HAT here.
Grove Ports	Connect to Grove modules. Pinout is as follow: - I2C Grove Port: - SCL - GPIO3 - SDA - GPIO2 - UART Grove Port: - RXD - GPIO15 - TXD - GPIO14 - GPIO Grove Port: - GPIO12 - GPIO13
IDC Socket for Raspberry Pi	Connect to Raspberry Pi via 40-way ribbon cable.
Buzzer	Programmable fixed tone buzzer (resonant frequency: 2700±300Hz). Connected to GPIO26 internally.
Mute Switch	Used to mute the buzzer if GPIO26 is used for other purposes.
Programmable Buttons	Active low push buttons. Connected to GPIO17, 22, 23 and 27 internally. Please enable the internal pull-up if you wish to use these buttons.
GPIO Status LEDs	LED indicator for Raspberry Pi GPIO. Turn on when the GPIO state is high.
Raspberry Pi Pins breakout	Breakout of the Raspberry Pi pins. Can be used with jumper cable to connect to other components.
3.3V Power LED	LED indicator for 3.3V. Turn on when powered up.
5V Power LED	LED indicator for 5V. Turn on when powered up.

2. SPECIFICATIONS

No	Parameters		Min	Max	Unit
1	5V Supply		Supplied by Raspberry Pi		-
2	3.3V Supply	Voltage	3.235	3.365	V
		Current	-	800	mA
3	GPIO Specification		Refer to Raspberry Pi		-

3. DIMENSION



All dimensions are in mm.

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