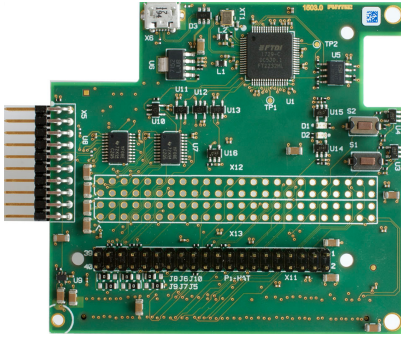


Raspberry Pi HAT Prototype Board (PEB-PROTO)



Accessory/Expansion Part Number	PEB-D-RPI.A0
Description	Expansion Board for the phyBOARD-Zeta

The PEB-D-RPI Expansion Board is designed to plug in to the [phyBOARD-Zeta](#) expansion interface and supports the 2x20 Raspberry Pi HAT header to facilitate rapid prototyping. The Raspberry Pi community has introduced a wide variety of add-on boards called HATs (Hardware Attached on Top). These readily available boards feature circuitry for LEDs, buttons, sensors, motors, displays, and more. By adding the PEB-D-RPI Expansion Board to your [phyBOARD-Zeta](#) you can leverage off-the-shelf add-on boards to accelerate the development cycle.

Documentation

How-To Guides

Hardware Manual:

[PEB-D-RPI Hardware Manual](#)

Quickstart Guides:

[i.MX7: Raspberry Pi HAT Support with PEB-D-RPI Expansion Board](#)

[i.MX7: Evaluating the PEB-D-RPI Expansion Board](#)

Pinout

The following diagram describes the 40-pin Raspberry Pi HAT pinout supported on the PEB-D-RPI Expansion Board.

+3V3	1	2	+5V
GPIO2 / SDA1	3	4	+5V
GPIO3 / SDCL1	5	6	GND
GPIO4	7	8	TXD0 / GPIO 14
GND	9	10	RXD0 / GPIO 15
GPIO17	11	12	GPIO18
GPIO27	13	14	GND
GPIO22	15	16	GPIO23
+3V3	17	18	GPIO24
GPIO10 / MOSI	19	20	GND
GPIO9 / MISO	21	22	GPIO25
GPIO11 / SCLK	23	24	CE0# / GPIO8
GND	25	26	CE1# / GPIO7
GPIO0 / ID_SD	27	28	ID_SC / GPIO1
GPIO5	29	30	GND
GPIO6	31	32	GPIO12
GPIO13	33	34	GND
GPIO19 / MISO	35	36	CE2# / GPIO16
GPIO26	37	38	MOSI / GPIO20
GND	39	40	SCLK / GPIO21

Add-On Boards

There are a wide variety of add-on boards available on the market that will plug directly into the 2x20 Raspberry Pi header supported on the PEB-D-RPI Expansion Board.

PHYTEC is supporting the following RPI HATs in software:

- ANAVI Flex HAT (Tindie)
- Capacitive Touch HAT (Adafruit)
- DC & Stepper Motor HAT (Adafruit)
- Perma-Proto HAT (Adafruit)
- PiTFT Plus 3.5" HAT (Adafruit)
- PWM & Servo HAT (Adafruit)
- RasPiO Pro HAT (RasPiO)
- Sense HAT (Raspberry Pi)
- Skywriter HAT (Pimoroni)
- Unicorn HD HAT (Pimoroni)

PCB Design Files:



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