

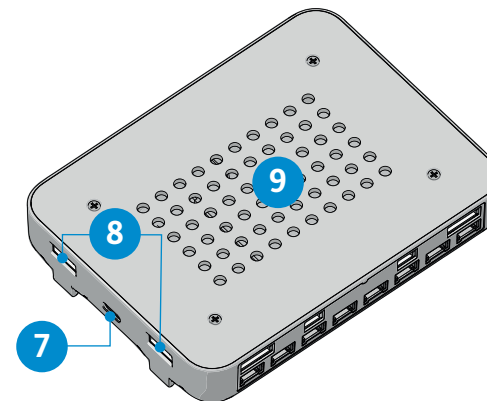
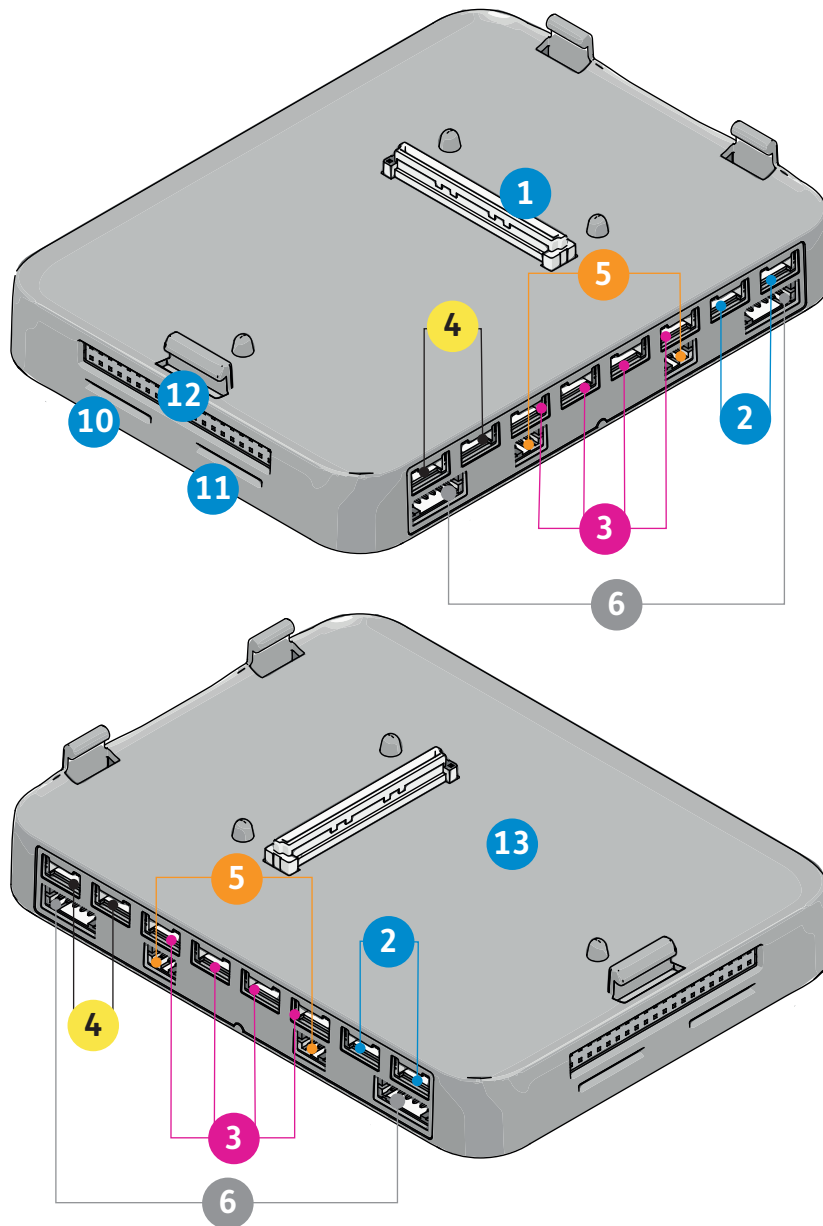
pi-top [4]



EXPANSION PLATE

The **ultimate** connectivity expansion for your pi-top [4]

Features



- 1 PMA Modular Connector
- 2 x4 Analog Ports
- 3 x8 Digital Ports (x1 UART)
- 4 x4 I²C Ports
- 5 x4 Servo Motor Ports (3-pin)
- 6 x4 Encoder Motor Ports (6-pin)
- 7 USB-C PD Charge Port
- 8 x2 Small USB 2.0 Ports (Type A)
- 9 pi-top Modular Build Structure Holes
- 10 Raspberry Pi CSI Port
- 11 Raspberry Pi DSI Port
- 12 Raspberry Pi 40-Pin GPIO Socket
- 13 9DoF Inertial Measurement Unit (Accelerometer, Gyroscope, Magnetometer)

What's next?

Equipped with built-in motor drivers, an Accelerometer, Gyroscope, Magnetometer and every type of port we could fit, the Expansion Plate's primary use is in combination with the pi-top [4] Robotics Kit.

Once docked, this plate allows the pi-top to be integrated with up to **16 sensors**, and drive up to **4 powerful DC motors** and another **4 precision servo motors**. We've also squeezed in all the Raspberry interfaces, including the **40 GPIO pins**, the **camera (CSI)** and **display (DSI)** ports, **2 USB ports**, and a **USB-C charging port** to keep things running. If the pi-top is the brain, then the Expansion Plate is the ultimate central nervous system!

But the Expansion Plate has the potential to be used in a lot more than just robotics projects - in fact, we designed it to be a powerful addition to any and all Raspberry Pi projects. When paired with the pi-top [4], it lets you turn any project into something portable that you can dock in and out of. No more de-wiring your Raspberry Pi to use elsewhere, just undock it and use it in another project! Best of all, you can keep your old projects ready-to-go and use them at any time.



[pi-top Python SDK](#)

(Beginner to advanced)

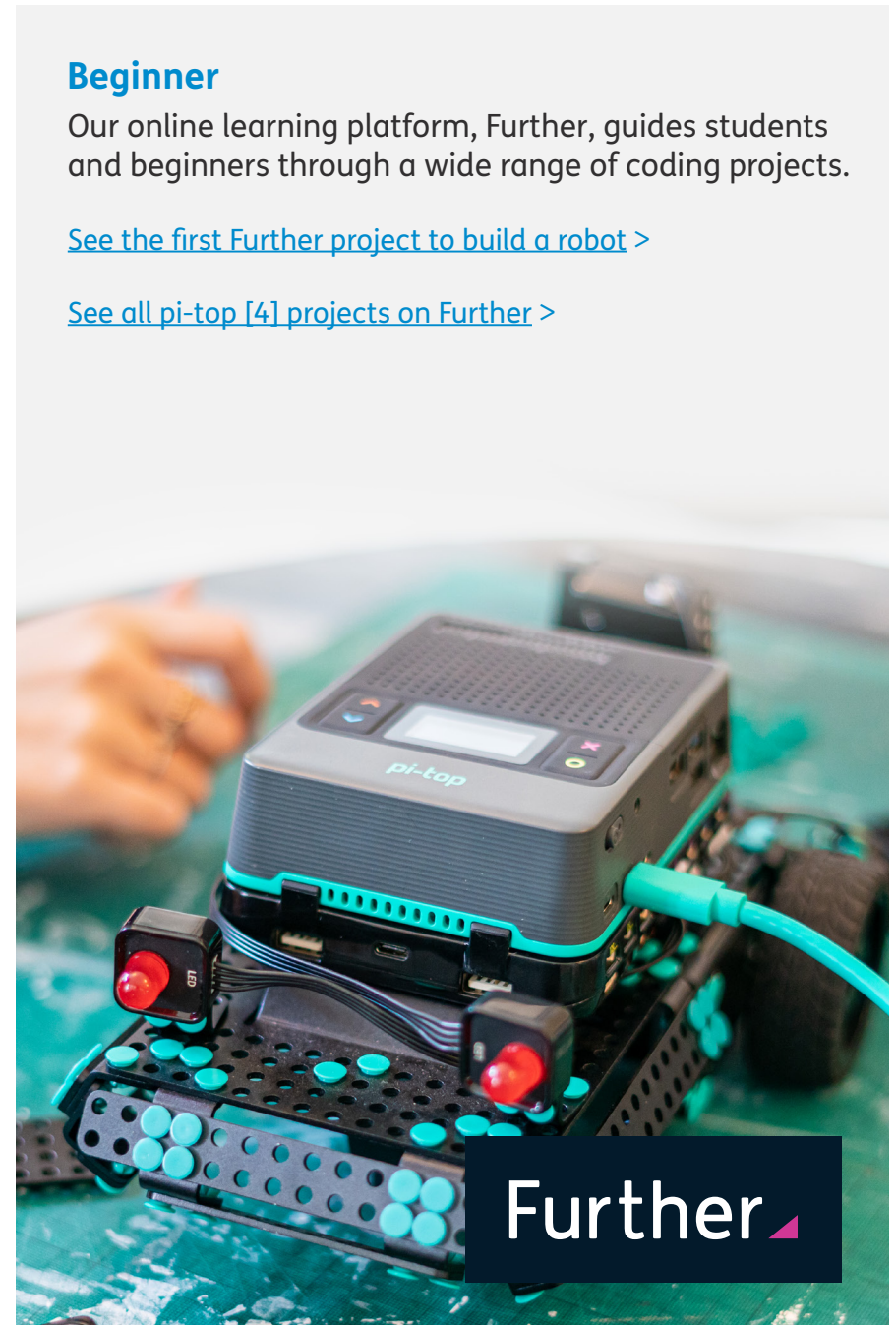
To get the most out of the Expansion Plate, head over to our Python SDK where you'll find open source software and documentation for using the encoder motors, servo motors, Inertial Measurement Unit (IMU) and more.

Beginner

Our online learning platform, Further, guides students and beginners through a wide range of coding projects.

[See the first Further project to build a robot >](#)

[See all pi-top \[4\] projects on Further >](#)



pi-top

Raspberry Pi made simple,
robust and modular.

pi-top.com

Having trouble? Check out:

pi-top.com/support or forum.pi-top.com