Item no.: 384228

EB9929 - Raspberry Pi Build Hat Starter Set

from **43,77 EUR**

Item no.: 384228
shipping weight: 0.20 kg
Manufacturer: Raspberry Pi Foundation

Product Description

The Raspberry Pi Build HAT is an add-on board developed in collaboration with LEGO® Education to enable the control of LEGO® Technic™ motors and sensors withRaspberry Pi computers.It provides four connectors for LEGO Technic motors and sensors from the LEGO® Education SPIKE™ portfolio.The available sensors include a distance sensor, a colour sensor and a force sensor.The angle motors are available in different sizes and have integrated encoders that can be queried to determine their position.The Build HAT fits any Raspberry Pi computer with a 40-pin GPIO connector, including a Pi400 with a ribbon cable or other expansion device.LEGO Technic devices can be easily controlled in Python, as well as standard Raspberry Pi accessories such as a camera module.The Raspberry Pi Build HAT power supply, sold separately, is designed to power both the Build HAT and the Raspberry Pi computer and any connected LEGO Technic devices.The LEGO® Education SPIKE™ Prime Set 45678 and the SPIKE™ Prime Expansion Set 45681,available separately from LEGO Education retailers, contain a collection of useful elements supported by the Build HAT.Specification:- Controls up to four LEGO Technic motors and sensors from the SPIKE portfolio,as well as the motors from the LEGO® MINDSTORMS® Robot Inventor kit and most otherLEGO devices that use an LPF2 connector- Fits any Raspberry Pi computer with a 40-pin GPIO connector- Easy-to-use Python library to control your LEGO Technic devices- The integrated Raspberry Pi RP2040 microcontroller manages the low-level control ofLEGO Technic devices- DC power connector: 2.1mm jack plug, centre positive- Requires an external 8V ±10% DC power source - such as the Raspberry Pi Build HAT Poweror a 7.5V battery pack - to power the Build HAT, the Raspberry Pi computer (except Raspberry Pi 400), and connected LEGO Technic devices

Specifications

Scan this QR code to view the product
All details, up-to-date prices and availability