

Hardware requirements for Embedded and Real Time Systems: Winter 2020

COMPONENTS

1. Raspberry Pi 4 Model B with 1Gb, 2Gb or 4Gb
2. Power Supply for Raspberry Pi 4 (make sure it is specifically for the Raspberry Pi 4)
3. SD Card: recommend picking a known SD card that works with Raspberry Pi 4
4. HDMI cable (may need a cable specific for your needs)
5. Optional case

Other standard hardware required for setup

- Ethernet cable
- HDMI Monitor
- USB Keyboard
- Small ethernet router and/or Wi-Fi

DETAILS

Raspberry Pi 4 Model B 2019 with 1Gb, 2Gb or 4Gb Kits starting from Amazon \$58.99

https://www.amazon.com/Vilros-Raspberry-Basic-Cover-Clear/dp/B07TJBHMW7/ref=sr_1_14?keywords=Raspberry+pi+4+kit+1gb&qid=1571756806&sr=8-14

OR

Raspberry Pi 4 Model B 2019 with 1Gb, 2Gb or 4Gb from Amazon \$45.99

https://www.amazon.com/Raspberry-Model-2019-Quad-Bluetooth/dp/B07TD43PDZ/ref=sr_1_6?keywords=Raspberry%2Bpi%2B4%2Bkit%2B1gb&qid=1571756893&sr=8-6&th=1

Power Supply (***important to get one for the Raspberry Pi 4***) from Amazon ~\$10

https://www.amazon.com/Smraza-Compatible-Raspberry-Charger-Adapter/dp/B07VFDYNL4/ref=sr_1_1_sspa?gclid=EA1aIQobChMI94zztJOW5QIVbxitBh0oew69EAAAYASAAEglzgpD_BwE&hvadid=356705556443&hvdev=c&hvlocphy=9033254&hvnetw=g&hvpos=1t1&hvqmt=e&hvrnd=2469469729758084179&hvtargid=aud-646675773986%3Akwd-430862630302&hydadcr=24364_11045515&keywords=raspberry+pi+4+power+supply&qid=1571757086&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEzTlI1WEtaR0RPTk9FJmVuY3J5cHRIZElkPUeWOT EzNzg3M0VHN01UWDZPR01aVyZlbnNyeXB0ZWRBZEIkPUeWMDc4MTg5MThEUExDS1JOSjQ1QSZ3aWR nZXROYW1IPXNwX2F0ZiZhY3Rpb249Y2xpY2tSZWRpcmVjdCZkb05vdExvZ0NsaWNrPXRydWU=

SD Card (note you have to have some way to write the SD Card) – \$5.79

https://www.amazon.com/Sandisk-Ultra-Micro-UHS-I-Adapter/dp/B073K14CVB/ref=sr_1_8?keywords=SD+card+raspberry+pi+4&qid=1571758062&sr=8-8

HDMI converter (Raspberry Pi 4 has mini HDMI connectors, below is a converter) from Amazon \$7

https://www.amazon.com/UGREEN-Compatible-Raspberry-Camcorder-Projector/dp/B00B2HOS08/ref=sr_1_2_sspa?crd=1SB6L2Q1WK64U&keywords=mini+hdmi+to+hdmi+caable&qid=1571757415&s=electronics&sprefix=mini+hd%2Celectronics%2C223&sr=1-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEySTNSMEhMSkZM0w1JmVuY3J5cHRIZEIkPUewNDM5OTUyTkUwS1Q3T0dTUExXJmVuY3J5cHRIZEFkSWQ9QTA4MjQzMjcyWEM4OUhGTEUwNFVGJndpZGdlE5hbWU9c3BfYXRmJmFjdGlvbj1jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==

Recommend shopping around for a case

https://www.amazon.com/Flirc-Raspberry-Pi-Case-Silver/dp/B07WG4DW52/ref=sr_1_3?crd=206FP1JOIYI5H&keywords=raspberry+pi+4+case&qid=1571757723&s=electronics&sprefix=Raspberry+pi+4%2Celectronics%2C234&sr=1-3

Recommended Book

Exploring Raspberry Pi: Interfacing to the Real World with Embedded Linux 1st Edition

From Amazon ~\$25.0

URL:

https://www.amazon.com/Exploring-Raspberry-Pi-Interfacing-Embedded/dp/1119188687/ref=sr_1_5?ie=UTF8&qid=1477852877&sr=8-5&keywords=raspberry+pi+for+beginners