

## Hardware requirements for Embedded and Real Time Systems Winter 2019

### COMPONENTS

1. Raspberry Pi 3 B+
2. Power Supply for Raspberry Pi 3
3. SD Card: recommend picking a known SD card that works with Raspberry Pi 3
4. HDMI cable
5. Optional case

Other standard hardware required for setup

- Ethernet cable
- HDMI Monitor
- USB Keyboard
- Router - Wi-Fi

### DETAILS

Raspberry Pi 3 B+ Kit from Amazon \$49

<https://www.amazon.com/CanaKit-Raspberry-Power-Supply-Listed/dp/B07BC6WH7V>

OR

Raspberry Pi 3 from Amazon \$39

[https://www.amazon.com/ELEMENT-Element14-Raspberry-Pi-Motherboard/dp/B07BDR5PDW/ref=pd\\_lpo\\_vtph\\_147\\_bs\\_t\\_1?encoding=UTF8&psc=1&refRID=K2RK0Z4AZ328C366DV9F](https://www.amazon.com/ELEMENT-Element14-Raspberry-Pi-Motherboard/dp/B07BDR5PDW/ref=pd_lpo_vtph_147_bs_t_1?encoding=UTF8&psc=1&refRID=K2RK0Z4AZ328C366DV9F)

Power Supply (important to get one for the Raspberry Pi 3) from Amazon \$10

[https://www.amazon.com/gp/product/B00MARDJZ4/ref=pd\\_bxgy\\_147\\_img\\_2?ie=UTF8&psc=1&refRID=RR84R4WEBZS17YS55RMW](https://www.amazon.com/gp/product/B00MARDJZ4/ref=pd_bxgy_147_img_2?ie=UTF8&psc=1&refRID=RR84R4WEBZS17YS55RMW)

SD Card – with NOOBS built-in from Amazon \$15 (you but a separate SD Card and program it yourself)

[https://www.amazon.com/LoveRPI-32GB-Raspbian-MicroSD-Raspberry/dp/B01FRLCE32/ref=sr\\_1\\_2?s=pc&ie=UTF8&qid=1477851548&sr=1-2&keywords=raspberry+pi+3+sd+card](https://www.amazon.com/LoveRPI-32GB-Raspbian-MicroSD-Raspberry/dp/B01FRLCE32/ref=sr_1_2?s=pc&ie=UTF8&qid=1477851548&sr=1-2&keywords=raspberry+pi+3+sd+card)

HDMI Cable from Amazon \$7

[https://www.amazon.com/AmazonBasics-High-Speed-HDMI-Cable-Standard/dp/B014I8SSD0/ref=dp\\_ob\\_title\\_ce](https://www.amazon.com/AmazonBasics-High-Speed-HDMI-Cable-Standard/dp/B014I8SSD0/ref=dp_ob_title_ce)

Optional Case \$6-\$16, personally like the one below.

[https://www.amazon.com/Flirc-Raspberry-Case-Gen2-Model/dp/B07349HT26/ref=sr\\_1\\_6?ie=UTF8&qid=1539960345&sr=8-6&keywords=raspberry+pi+metal+case](https://www.amazon.com/Flirc-Raspberry-Case-Gen2-Model/dp/B07349HT26/ref=sr_1_6?ie=UTF8&qid=1539960345&sr=8-6&keywords=raspberry+pi+metal+case)

## **Recommended Book**

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

From Amazon ~\$22.0

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](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)