

HAMCON PRESENTATION Raspberry Pi 3B +

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Radio Amateurs of Vermont

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What you require to get started Hardware

- Raspberry PI3B+ - Suitable Case or piece of Wood
- Micro USB Power Supply of 5 VDC @ 2.5 amps
- HDMI cable - Monitor that supports HDMI
- MicroSD card 16 gb - USB Keyboard & Mouse

How to Install NOOBS on a SD card – Mac

<https://computers.tutsplus.com/tutorials/how-to-install-noobs-on-a-raspberry-pi-with-a-mac--mac-57831>

How to Install NOOBS on a SD card – PC

<https://www.raspberrypi.org/documentation/installation/noobs.md>

How to install NOOBS on the raspberry PI

<https://thepi.io/how-to-install-noobs-on-the-raspberry-pi/>

Raspberry PI Websites of interest to Amateur Radio

- List of Amateur Radio Raspberry PI packages

<http://www.raspberrypi.org/documentation/installation/noobs.md>
[http://www.raspbianconnect.com/raspbian-packages-list/item/71-raspbian-hamradio](http://www.raspberrypi.com/raspbian-packages-list/item/71-raspbian-hamradio)

- Proven Raspberry Pi Ham projects: <http://www.hamblog.co.uk/top-10-amateur-radio-uses-for-raspberry-pi/>

- Another great site with ham projects: <http://www.g0hwc.com/raspberry-pi-ham-radio.html>

Suppliers

www.Amazon.com

check pricing, sometimes, you can find lower prices.

<https://www.buyapi.ca>

Canadian site, great selection of PI 3 items.

<https://www.raspberrypi.org/raspberry-pi-store/> Cambridge, UK – Raspberry Pi Store

Reference Material used in Presentation

Raspberry Pi 3 – From Noob to Master,
Hamshack Raspberry Pi,
Raspberry Pi for Kids (Updated) Made Easy
Understand How Computers Work
20 Easy Raspberry Pi Projects (April 2018)

Steve Ora ISBN 9781544112657
Dwight Stanfield, ISBN 9781981987771
Samuel Horti, Rene Millman & Laurence Mozafari
ISBN 9781786645388
Rui Santos & Sara Santos

Raspberry PI: Step by Step Guide to Raspberry Pi for Beginners

ISBN 9781593278434
(September 2018) Gabriel Gray
ISBN 9781720143994

Magnificent 3 Wire Antenna's

Presentation by John Grow VE2EQL

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Sources of Information

40 to 6 meter Antenna

44 feet, centered feed with ladder line to a point near your station. Then feed with ladder line, (any length) to a balun. Can be horizontal or vertical. Run ladder line at 90 degrees from the antenna. Use with antenna tuner.

80 to 6 meter Antenna

88 feet, centered feed with ladder line to a point near your station. Then feed with ladder line, (any length) to a balun. Run ladder line at 90 degrees. Mount as high as possible. Best configuration is straight line. Use with an antenna tuner.

Great 80 to 6 meter Antenna

176 feet. Dipole feed with ladder line.

Perfect for 160 meters.

253 feet. to 353 feet. dipole with ladder line.

Disclosure

I do not like baluns, my method is to use a balanced antenna tuner with ladder line directly to the antenna.

Best Balanced Line Tuner Article. (No Balun Required)

<http://www.dj0ip.de/antenna-matchboxes/symmetrical-matchboxes/>

<http://www.qsl.net/w2wdx/articles/a4.html>

Best Sites for Antenna Information

www.cebik.com

<http://www.hamuniverse.com/antennas.html>

www.radioworks.com

<http://thewireman.com>

Radio Humor

<http://www.eham.net/articles/1299>