

# Riverside Raspberry Pi

04/09/18 meeting

# IEPUG intro

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- who we are
- don't feel you need to stay the whole time



## Sponsors:

Thanks to Riverside I/O & Excite for hosting our meetings

<http://www.riverside.io/en>: co-working space in downtown Riverside

<https://exciteriverside.org/>: a unique tech business acceleration program: created in collaboration between business leaders, the City and County of Riverside, and the University of California Riverside

# Chat Room:

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Raspberry PI now has a chat room on gitter.  
Come hang out and talk to us about your  
PI project or make suggestions for meeting topics.

<https://gitter.im/RiversideRaspberry/Lobby>

# Publications:

MagPi: Issue #68 available:

<https://www.raspberrypi.org/magpi-issues/MagPi68.pdf>

Raspberry Pi 3B+ (pg 16)

All issues available here:

<https://www.raspberrypi.org/magpi-issues/>



# Publications:

## HackSpace

issue #5 available:

<https://hackspace.raspberrypi.org/issues/5>

Inside AdaFruit (pg 32)

**Raspberry Pi 3B+ (pg 54)**

Stirling engine buggy (pg 116)

ZX Spectrum Next development kit (pg 126)



# Pi related item:

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Joy Bonnet (\$15):

A mini gamepad that fits on top of a Pi Zero

<https://www.adafruit.com/product/3464>

[http://www.microcenter.com/product/479246/Joy\\_Bonnet\\_for\\_Raspberry\\_Pi](http://www.microcenter.com/product/479246/Joy_Bonnet_for_Raspberry_Pi)

Combo w/Pi Zero, case and cables (\$33):

<https://www.adafruit.com/product/3205>



# Pi related item:

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The logo for Octopart, featuring the word "Octopart" in a white, sans-serif font. The letter "o" in "Octo" is replaced by a gear icon. The logo is set against a dark blue rectangular background.

OctoPart:

<https://octopart.com>

Website for finding best price on electronic parts

# The new Raspberry Pi 3B+

## Quick Specs:

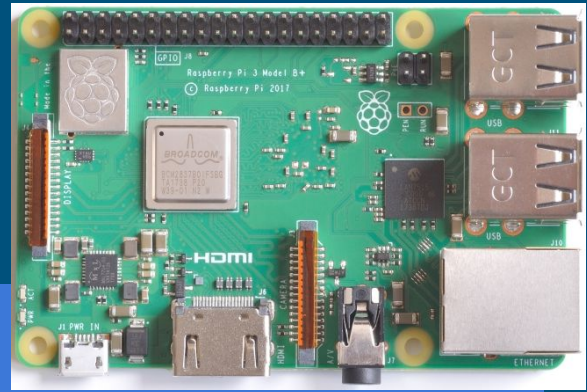
- 1.4GHz 64-bit quad-core ARM Cortex-A53 CPU
- Dual-band 802.11ac wireless LAN and Bluetooth 4.2
- Faster Ethernet (Gigabit Ethernet over USB 2.0)
- Power-over-Ethernet support (with separate PoE HAT)
- Improved PXE network and USB mass-storage booting
- Improved thermal management





# The new Raspberry Pi 3B+:

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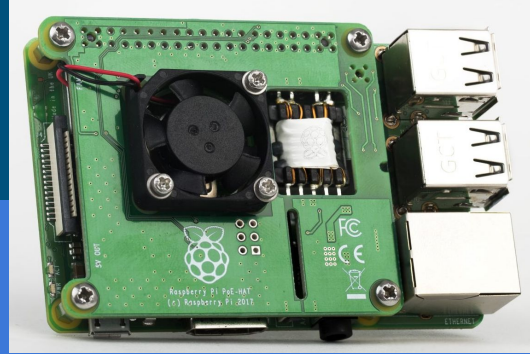
## Review:

- <http://raspi.tv/2018/new-raspberry-pi-model-3b-1-4-ghz-330mbit-ethernet-802-11ac-poe>
- [Raspberry Pi 3 B+ Review and Performance Comparison](#) (Jeff Geerling)  
(a down and gritty performance review)

## Comparison:

- <http://socialcompare.com/en/comparison/raspberrypi-models-comparison>

# The new Raspberry Pi 3B+:

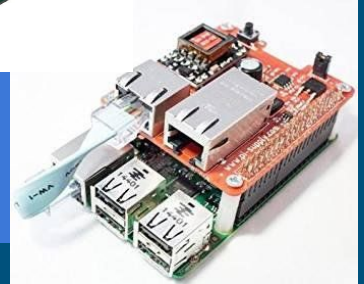
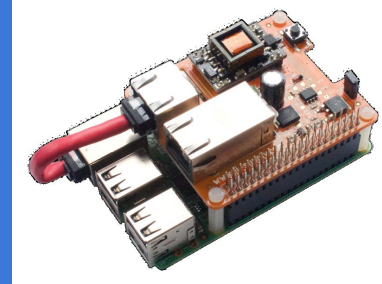


## Integrated POE hat:

- integrated, doesn't extend header?, cost??
- [Raspberry Pi PoE HAT](#)

## Aftermarket POE (\$41-\$51):

- Pi PoE Switch HAT - Power over Ethernet for Raspberry Pi
- extends header
- US: mediacore reviews/ UK: good reviews, but overseas ordering
- <https://www.amazon.com/Pi-PoE-Switch-HAT-Raspberry/dp/B01E6LV9SK>
- <https://uk.pi-supply.com/products/pi-poe-switch-hat-power-over-ethernet-for-raspberry-pi>



# Discussion topic notes from meeting:

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- NextCloud NAS: good NAS for Pi for Pi,  
<https://ownyourbits.com/category/arm/raspberrypi/>
- Gold N West Surplus (surplus desktops/laptops, repair in Corona)  
<http://gwsrecycling.com/>
- Computer History Museum  
<http://www.computerhistory.org/>
- TRW swap meet:  
Last Saturday of the month ( 7:00 AM to 11:30 AM ) rain or shine! (this month's date is 4/28/18)  
<http://w6trw.com/index.php/w6trw-amateur-radio-club-swap-meet/>

# Discussion topic notes from meeting:

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- Pi-hole: add-blocker DNS server

<https://hackspace.raspberrypi.org/issues/5> (page 56)

<https://github.com/pi-hole/pi-hole/wiki>

<https://lifehacker.com/create-a-network-wide-ad-blocker-with-a-raspberry-pi-1727295925>

# Discussion topic notes from meeting:

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- Star Wars ASCII: <http://www.asciimation.co.nz/>
- Computer RF interference music: <https://www.youtube.com/watch?v=EPk8MVEmiTI>
- Printer music:  
<https://www.youtube.com/watch?v=jufHGUp3xQw>  
<https://vimeo.com/58200103>
- Floppy drive music (I Believe they uses Arduinos to control them):  
2.0: <https://www.youtube.com/watch?v=Oym7B7YidKs>  
80's music: <https://www.youtube.com/watch?v=oqwZzuOXYPU>



# Riverside Raspberry Pi



End!

