

Raspberry Pi 4

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Raspberry Pi 4
 by **pontirs** » June 24th, 2019, 10:11 am
 The new raspberry pi 4 has been released today, a [link](#) to a review with some very nice benchmarks compared to at least older models.
 Up to 4Gb LPDDR4–3200 SDRAM.
 Gigabit Ethernet that doesn't share the lane with USB.
 USB 3.0.
 and so on.
 Changed the SoC too.. Now using the quad-core A72 (ARMv8-A) running at 1.5GHz.
 And a GPU upgrade too (obviously not as important if it would be used to run IPFire on...)
 Update: The A72 is affected by the Spectre vulnerability. So, probably not a good idea for a router.

pontirs
 Posts: 10
 Joined: September 29th, 2015, 12:08 am

Re: Raspberry Pi 4
 by **rodneyp** » June 27th, 2019, 2:54 am
 see <https://wiki.ipfire.org/hardware/arm/start>
 It can be a daunting task for beginners to get IPFire installed and booting on any ARM board.
 My preference is to use a discarded x86 laptop. It's possible to find same without Intel CPU. Power consumption will be higher than for an ARM board, but not overwhelming, in the scheme of things.
 I've run most brands – ASUS, Acer, Dell, HP without a main battery for extended periods, with no ill effect

rodneyp
 Posts: 149
 Joined: October 4th, 2010, 2:17 am
 Location: Australia

Re: Raspberry Pi 4
 by **pontirs** » June 29th, 2019, 11:18 am
 I'm not a beginner, and I used to run IPFire on a Raspberry Pi Model B+ back when I only had ADSL. Worked quite well. Getting fiber I obviously had to upgrade the hardware, but considering the latest issues with intel hardware, I would prefer running IPFire on something not affected by a number of vulnerabilities.

pontirs
 Posts: 10
 Joined: September 29th, 2015, 12:08 am

Re: Raspberry Pi 4
 by **Mentalic** » July 1st, 2019, 2:39 pm
 Another option is older HP compaq SFF box's off Ebay. Hundreds of these hit the market from corporate refresh cycles for less than the price of a Raspberry. I'm running AMD's that are only venerable to spectre 1 and 2 which are mitigated, much better than Intel's offerings.

Mentalic
 Posts: 31
 Joined: April 14th, 2018, 2:51 pm



Re: Raspberry Pi 4
 by **rodneyp** » July 2nd, 2019, 1:12 am
 re-used SFF PC certainly look a good alternative.
 I was an early adopter of RPi, buying a model B+ having only 256 MB RAM. It coped with my meagre 13 Mb/s Internet speed but was slow to respond and I doubt it could handle IPS, whereas my old AMD laptop does.
 A search of <http://aliexpress.com> for "mini PC" having "AMD CPU" produces a plethora of results for the same generic A6–1410 box, having 8 W power consumption. I've ordered one of these very compact PC to try. Am fairly confident it will run IPFire – if not it can be a summer workstation.

rodneyp
 Posts: 149
 Joined: October 4th, 2010, 2:17 am
 Location: Australia

Re: Raspberry Pi 4
 by **Mentalic** » July 2nd, 2019, 1:44 am
 Wow 8 watts is low power. Checked my HP 6005 SFF with a kil-a-watt meter, 56 watts. Guess that's not terribly efficient but not to bad about \$4 a month to run here.

Mentalic
 Posts: 31
 Joined: April 14th, 2018, 2:51 pm



Re: Raspberry Pi 4
 by **JonM** » July 5th, 2019, 10:54 pm
 FYI – the new Raspberry Pi 4B does not boot with:
 ipfire-2.23.2gb-ext4.armv5tel-full-core134.img
 -OR-
 ipfire-2.23.2gb-ext4.aarch64-full-core134.img
 Must wait until the IPFire devs do their magic!

JonM
 Posts: 144
 Joined: August 4th, 2017, 5:49 pm
 Location: US



Re: Raspberry Pi 4
 by **Arne.F** » July 6th, 2019, 1:49 am
 First of all there is no working uboot yet and we dont have hardware...

Arne.F
 Core Developer
 Posts: 8522
 Joined: May 7th, 2006, 8:57 am
 Location: BS <-> NDH
 Contact: [G+](#)

Arne
 Support the project on the [donation!](#)



PS: I will not answer support questions via email and ignore IPFire related messages on my non IPFire.org mail addresses.

Re: Raspberry Pi 4
 by **JonM** » July 6th, 2019, 5:17 am
 Instead of making a donation (which cannot be done today), can a RPi4B be shipped via Amazon Germany directly to you or another IPFire dev?
 I'm not sure if this can be done where I order something from amazon.de direct to you. I am in the US.
<https://www.amazon.de/Raspberry-RAS-4-P...07TD43PDZ/>

JonM
 Posts: 144
 Joined: August 4th, 2017, 5:49 pm
 Location: US



Re: Raspberry Pi 4
 by **Arne.F** » July 6th, 2019, 7:53 am
 We plan to buy it but we will wait for the 4GB Version to use it as builder later. Maybe also more then one to build 32 and 64bit on different machines. Currently i use a Odroid C2 as builder and the nightly's run at Amazon (but this machines are fast but expensive)

Arne.F
 Core Developer
 Posts: 8522
 Joined: May 7th, 2006, 8:57 am
 Location: BS <-> NDH
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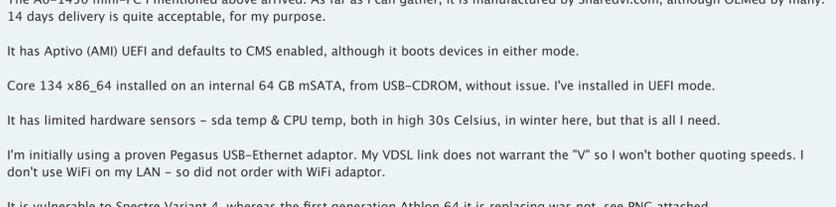
PS: I will not answer support questions via email and ignore IPFire related messages on my non IPFire.org mail addresses.

Re: Raspberry Pi 4
 by **DJ-Melo** » July 11th, 2019, 12:23 pm
 I would wait a while because of [https://www.heise.de/newsticker/meldung ... 67303.html](https://www.heise.de/newsticker/meldung...67303.html)

DJ-Melo
 Posts: 678
 Joined: July 8th, 2014, 7:12 am

Re: Raspberry Pi 4
 by **rodneyp** » July 15th, 2019, 5:26 am
 The A6–1450 mini-PC I mentioned above arrived. As far as I can gather, it is manufactured by Sharedvi.com, although OEMed by many. 14 days delivery is quite acceptable, for my purpose.
 It has Aptivo (AMI) UEFI and defaults to CMS enabled, although it boots devices in either mode.
 Core 134 x86_64 installed on an internal 64 GB mSATA, from USB-CDROM, without issue. I've installed in UEFI mode.
 It has limited hardware sensors – sda temp & CPU temp, both in high 30s Celsius, in winter here, but that is all I need.
 I'm initially using a proven Pegasus USB–Ethernet adaptor. My VDSL link does not warrant the "V" so I won't bother quoting speeds. I don't use WiFi on my LAN – so did not order with WiFi adaptor.
 It is vulnerable to Spectre Variant 4, whereas the first generation Athlon 64 it is replacing was not. see PNG attached

rodneyp
 Posts: 149
 Joined: October 4th, 2010, 2:17 am
 Location: Australia



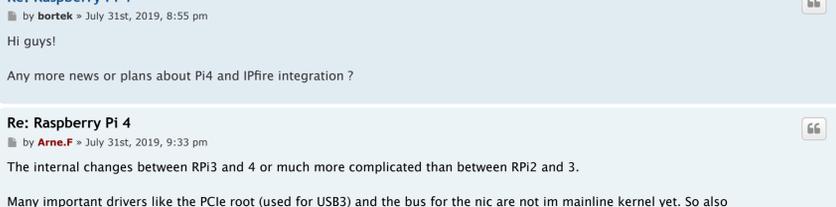
Re: Raspberry Pi 4
 by **bortek** » July 31st, 2019, 8:55 pm
 Hi guys!
 Any more news or plans about Pi4 and IPfire integration ?

bortek
 Posts: 10
 Joined: December 1st, 2018, 9:41 am

Re: Raspberry Pi 4
 by **Arne.F** » July 31st, 2019, 9:33 pm
 The internal changes between RPi3 and 4 or much more complicated than between RPi2 and 3.
 Many important drivers like the PCIe root (used for USB3) and the bus for the nic are not in mainline kernel yet. So also Fedora has stated that they need much time to implement this. And as long the drivers are not in mainline IPFire cannot support it. Also if mainline kernel has implemented all important features we not change the kernel too early because this need much time for all supported platforms.
 So in the near future the RPi4 will not supported by IPFire.

Arne.F
 Core Developer
 Posts: 8522
 Joined: May 7th, 2006, 8:57 am
 Location: BS <-> NDH
 Contact: [G+](#)

Arne
 Support the project on the [donation!](#)



Re: Raspberry Pi 4
 by **bortek** » August 1st, 2019, 6:10 am
 Thanks for the response. At least we know that this will come in 6–9 months I guess. Thanks guys!

bortek
 Posts: 10
 Joined: December 1st, 2018, 9:41 am

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Re: Raspberry Pi 4
 by **ptartari** » October 19th, 2019, 7:08 am
 Hi Guys, any news about this project?
 Many thanks
 Have a nice day
 Paolo

ptartari

Posts: 4
 Joined: August 15th, 2019, 11:09 am

Re: Raspberry Pi 4
 by **rodneyp** » October 20th, 2019, 8:45 pm
 After a fashion

A friend who purchased one has had to spend the same amount again on finned heatsinks that cover the whole of the base plus all area that is free of sockets on the top as well as two micro-fans on top. It's now stopped overheating – during mid-season weather. Situation in summer remains to be seen.

As a result, the plastic case is no longer usable. Aluminium cases are available, but don't provide direct heat-sinking and might not be an effective solution.

Not a low cost solution and could still require careful placement of the device to get adequate airflow.

Re: Raspberry Pi 4
 by **JonM** » October 20th, 2019, 10:36 pm
 There is a firmware update for the Raspberry Pi 4B that lowers the temp a few degrees. I've found a few links but I have not located the Official Raspberry Pi fix. There is a concern about USB 3 speed slow-downs after applying the new firmware.

My Raspi 4B is not overheating or throttling that I've noticed. But I am not stressing it or using for anything heavy duty. I'll run some tests sometime soon.

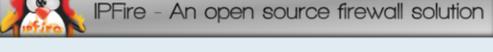
Non-official link:
<https://www.cnx-software.com/2019/06/29-temperature/>
<https://www.tomshardware.com/news/raspb-39791.html>

EDIT:
 I think this is the official version:
<https://www.raspberrypi.org/forums/view-5#p1490467>

Production:



Testing Raspi 3B+:



Re: Raspberry Pi 4
 by **JonM** » November 1st, 2019, 2:00 pm
 Came across this as I was looking for something else:

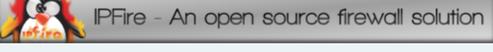
RPI4: NOW OVERCLOCKED, NET-BOOTED, AND POWER-SIPPING
<https://hackaday.com/2019/10/30/rpi4-no-r-sipping/>

Full disclosure: I have not tried this yet.

Production:



Testing Raspi 3B+:

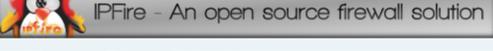


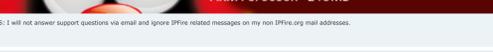
Re: Raspberry Pi 4
 by **bortek** » November 3rd, 2019, 5:43 am
 My pi4 does not overheat and works perfectly well. Waiting for ipfire release that will work on it.

Re: Raspberry Pi 4
 by **Arne.F** » November 5th, 2019, 7:33 am
 Until the mainline Kernel support it and we are on this version it will not work. So this can take long time...

Arne

Support the project on the [donation!](#)





PS: I will not answer support questions via email and ignore IPFire related messages on my non IPFire.org mail addresses.

Arne.F
 Core Developer

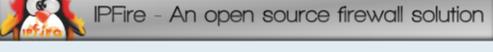
Posts: 8522
 Joined: May 7th, 2006, 8:57 am
 Location: BS <-> NDH
 Contact: [G+](#)

Re: Raspberry Pi 4
 by **Arne.F** » November 20th, 2019, 9:56 am
<https://www.raspberrypi.org/forums/view-...p?t=249579>

Initial debug support is planned for mainline kernel 5.4 but this will not include Ethernet or USB3 support so it is still not useable for IPFire...

Arne

Support the project on the [donation!](#)





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Arne.F
 Core Developer

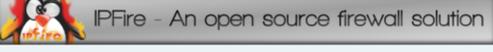
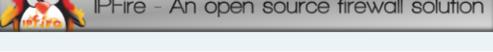
Posts: 8522
 Joined: May 7th, 2006, 8:57 am
 Location: BS <-> NDH
 Contact: [G+](#)

Re: Raspberry Pi 4
 by **BeFore** » November 30th, 2019, 9:28 am
 I follow this thread from the beginning and just ordered a pi 4 (black friday).

Instead of waiting for native support by the kernel, why can't we grab the kernel code 4.19 for the raspberry pi 4 and build ipfire with it?

How do other distributions (that are made for the pi 4) handle that problem?

5.4 LTS is out. Maybe it's "easy" to implement the missing stuff? Otherwise we'll need to wait another year until the next LTS kernel version 😊.

BeFore

Posts: 79
 Joined: February 2nd, 2016, 9:22 pm

Re: Raspberry Pi 4
 by **ShorTie** » January 7th, 2020, 9:44 pm
 I only mention this because Arne.F says it will be awhile, hope it's ok. I do have a working arm64 version of Smoothwall for the p4 for anyone interested.
<https://community.smoothwall.org/forum/...83#p353493>

ShorTie

Posts: 6
 Joined: December 2nd, 2018, 2:00 pm

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