

RASPBERRY PI 2 ON SALE NOW AT \$35

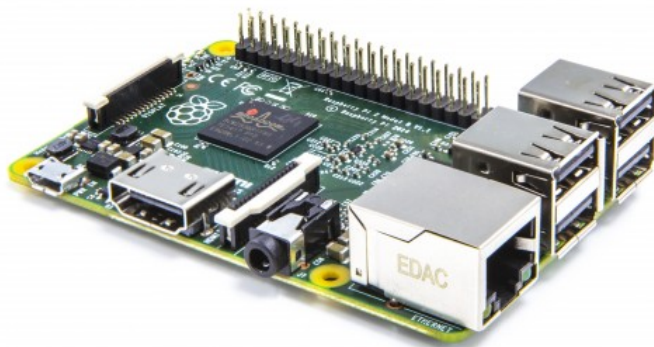
[870 Comments](#)Posted by **Eben Upton**Raspberry Pi Founder
Founder

2nd Feb 2015 at 8:55 am

Let's get the good stuff out of the way above the fold. Raspberry Pi 2 is now on sale **for \$35** (the same price as the existing Model B+), featuring:

- A 900MHz quad-core ARM Cortex-A7 CPU (~6x performance)
- 1GB LPDDR2 SDRAM (2x memory)
- Complete compatibility with Raspberry Pi 1

Because **it has an ARMv7 processor**, it can run the full range of ARM GNU/Linux distributions, including Snappy Ubuntu Core, as well as Microsoft Windows 10.



Raspberry Pi 2

[« TEACHING LITERATURE WITH RASPBERRY PI](#)[RASPBERRY PI 2 ON SALE NOW AT \\$35](#)[*TAPS MONITOR* – IS THIS THING ON? »](#)[BLOG FEED](#)[VIEW THE ARCHIVE](#)[RSS FEED](#)[RASPBERRY PI WEEKLY](#)[SIGN UP NOW](#)

BCM2836 AND RASPBERRY PI 2

Since we launched the original Raspberry Pi Model B, back in 2012, we've done an enormous amount of software work to get the best out of our Broadcom BCM2835 application processor and its 700MHz ARM11 CPU. We've spent a lot of money on optimising a wide variety of open-source libraries and applications, including WebKit, LibreOffice, Scratch, Pixman, XBMC/Kodi, libav and PyPy. At the same time, the [Raspbian](#) project, run by Peter Green and Mike Thompson, has provided us with an ARMv6-compatible rebuild of Debian with hardware floating point support, and Gordon, Dom and Jonathan have spent thousands of hours working on the firmware and board support to make Raspberry Pi the most stable single board computer in the world. It's worth going back and trying out an old SD card image from 2012 to get an idea of how far we've come.

Nonetheless, there comes a point when there's no substitute for [more](#) memory and CPU performance. Our challenge was to figure out how to get this without throwing away our investment in the platform or spoiling all those projects and tutorials which rely on the precise details of the Raspberry Pi hardware. Fortunately for us, Broadcom were willing to step up with a new SoC, BCM2836. This retains all the features of BCM2835, but replaces the single 700MHz ARM11 with a 900MHz quad-core ARM Cortex-A7 complex: everything else remains the same, so there is no painful transition or reduction in stability.



BCM2836 silicon bringup

from [Raspberry Pi Foundation](#)

00:28 |

Once we were confident that BCM2836 was performing as expected, James designed a series of prototypes, before we settled on the Raspberry Pi 2 Model B that launches today. This has an identical form-factor to the existing Raspberry Pi 1 Model B+, but manages to pack in both the new BCM2836 and a full 1GB of SDRAM from our friends at Micron. All of the connectors are in the same place and have the same functionality, and the board can still be run from a 5V micro-USB power adapter.

Raspberry Pi 2 is available to buy today from our partners [element14](#) and [RS Components](#). Remember you'll need an updated NOOBS or Raspbian image including an ARMv7 kernel and modules from our [downloads](#) page. At launch, we are using the same ARMv6 Raspbian userland on both Raspberry Pi 1 and 2; over the next few months we will investigate whether we can obtain higher performance from regular ARMv7 Debian, or whether we can selectively replace a small number of libraries to get the best of both worlds. Now that we're using an ARMv7 core, we can also run Ubuntu: a Snappy Ubuntu Core image is [available now](#) and a package for NOOBS will be available in the next couple of weeks.

WINDOWS 10

For the last six months we've been working closely with Microsoft to bring the forthcoming Windows 10 to Raspberry Pi 2. Microsoft will have much more to share over the coming months. The Raspberry Pi 2-compatible version of Windows 10 will be available **free of charge** to makers.

Visit WindowsOnDevices.com today to join the Windows Developer Program for IoT and receive updates as they become available.

FAQS

We'll keep updating this list over the next couple of days, but here are a few to get you started.

Are you discontinuing the Raspberry Pi 1 Model B and B+?

No. We have a lot of industrial customers who will want to stick with Raspberry Pi 1 for the time being. We'll keep building Raspberry Pi 1 Model B and Model B+ as long as there's demand for it. Both these boards will continue to sell for \$35.

What about Model A+?

Model A+ continues to be the \$20 entry-level Raspberry Pi for the time being. Although the new board is called Raspberry Pi 2 Model B, we have no plans to introduce a Raspberry Pi 2 Model A before the end of 2015.

but for now we're focused on getting Raspberry Pi 2 Model B out of the door.

Are you still using VideoCore?

Yes. VideoCore IV 3d is the *only* [publicly documented](#) 3d graphics core for ARM-based SoCs, and we want to make Raspberry Pi more open over time, not less.

Where does the "6x performance" figure come from?

The speedup varies between applications. We've seen single-threaded CPU benchmarks that speed up by as little as 1.5x, while Sunspider is around 4x faster, and NEON-enabled multicore video codecs can be over 20x faster. 6x is a typical figure for a multi-threaded CPU benchmark like SysBench.

Is this a full version of Windows 10?

Please refer to WindowsOnDevices.com.

CREDITS

A project like this requires a vast amount of focused work from a large team over an extended period. A partial list of those who made major direct contributions to the BCM2836 chip program and Raspberry Pi 2 follows: James Adams, Leo Azevedo, Jonathan Bell, Alex Bradbury, Dom Cobby, Steve Cook, Dave Collins, Phil Elwell, Gordon Hollingworth, Andrew Holme, Tammy Julyan, John Kelly, Walter Kho, Yung-Ching Lee, Gert van Loo, Ian Macaulay, Paul Manser, Simon Martin, Luca Di Mauro, Akshaye Sama, Andrew Scheller, Serge Schneider, Mark Scoones, Shawn Shadburn, Paul Sherry, Mike Stimson, Stuart Thompson, Roger Thornton, Madhu Thottupura, James Turner, Nidhi Varshneya, Andrew West. If you're not on this list and think you should be, please let me know, and accept my apologies.

If you're in front of a computer at 9am GMT and for a while after, you can watch us [announcing the Raspberry Pi 2 live](#), and submit questions for us.

ubuntu snappy ubuntu raspbian raspberry pi 2 quad core microsoft broadcom bcm2836 arm
windows videocore

870 COMMENTS



Michael Horne says:

2nd Feb 2015 at 8:57 am

Congratulations on this fantastic news! :) A real game-changer!



Tim says:

2nd Feb 2015 at 8:59 am

Sweet! Now I'm going to read that post all over again....



Ladyada says:

2nd Feb 2015 at 8:59 am

y!



Steve says:

2nd Feb 2015 at 11:13 am

I'm on the hunt for a vendor who actually has this board in stock, why does it seem like nobody has the Pi2B?

They have stock here: <http://cpc.farnell.com/jsp/search/productdetail.jsp?sku=SC13793>



Iain says:

2nd Feb 2015 at 6:56 pm

It's cheapest on RS



jon says:

2nd Feb 2015 at 8:42 pm

Could you post a link to the website you are referencing? Thanks!



Ollie Baxter says:

2nd Feb 2015 at 10:25 pm

Yes! We just bought some from cpc! Amazing :D



Budd says:

3rd Feb 2015 at 5:51 am

Curious why RS lists the Pi2 at £22.85 but it appears in the Cart for £24.90 + £4.98 VAT for total £29.88/



James Moreton says:

3rd Feb 2015 at 3:22 pm

these guys have stock now Australia...

<http://www.wiltronics.com.au/catalogue/201994/raspberry-pi/raspberry-pi-and-accessories/raspberry-pi/raspberry-pi-2-model-b-1024mb-ram>



Paddy says:

2nd Feb 2015 at 11:11 pm

How Fantastic. The Raspberry Pi was brilliant already. Keeping it low cost at a minor inconvenience of speed was the right decision. But now we get the speed too – and for no extra cost. How fantastic is that.



The Raspberry Pi Guy says:

2nd Feb 2015 at 9:00 am

<https://www.youtube.com/watch?v=Xo8RT8Wpv6w>

Check out my video on the brand new Raspberry Pi 2! Awesome stuff!

The Raspberry Pi Guy



Ladyada says:

2nd Feb 2015 at 9:03 am

Whoops! The link didn't post, server is getting busy! Here's the benchmark guide ...

<https://learn.adafruit.com/introducing-the-raspberry-pi-2-model-b?view=all>



mahjongg says:

2nd Feb 2015 at 9:04 am

congratulations raspberry PI foundation!

Complete compatibility with previous models, but six times the performance, and twice the memory for the same price!

Brilliant!



Mohamed hosny says:

2nd Feb 2015 at 9:04 am

Perfect!

You mean 'perfect' (a 'prefect' is a high school student representative as voted by students/or appointed by teachers).

I hope this help :)



Yazza says:

3rd Feb 2015 at 4:24 pm

*helps (we all make mistakes :-p).



Bill Mavromatis says:

2nd Feb 2015 at 9:08 am

Congratulations guys! Sounds very exciting! Any purchase link for the UK?



mahjongg says:

2nd Feb 2015 at 9:40 pm

yeah farnell UK.

<http://uk.farnell.com/raspberry-pi-accessories?ICID=I-HPBL-feb15-LDBR-0101>



brigo says:

3rd Feb 2015 at 2:33 pm

The RS Components link provided in Eben's article worked perfectly well for me – I received mine's today!



brigo says:

2nd Feb 2015 at 9:10 am

Excellent news – ordered one already – can't wait!



OS1 says:

2nd Feb 2015 at 9:12 am

hmmmm, Windows 10; to the dark side you move



Mr Floppy says:

2nd Feb 2015 at 9:30 am

Well I think that is a case of wait and see. I don't know how open it will be with windows but I can't see the foundation being held to ransom with them on board unless this is some scheme in patent trolling they are working up



Alasdair Allan says:

2nd Feb 2015 at 10:57 am

Microsoft is being awfully vague about what they actually intend to release though. Talking to their PR people about this felt like battling fog,
<http://makezine.com/2015/02/02/microsoft-windows-support-raspberry-pi-2/>.



Anders Jackson says:

3rd Feb 2015 at 1:08 pm

Agree. To darkness the have turned. Hope they still able to turn around. ;-)



James Hughes says:

3rd Feb 2015 at 1:43 pm

Not sure how MS porting Win10 IoT to the Pi means the Foundation has turned to the darkside. After all, al the existing Linux stuff is still available and the recommended approach.

But hey, if you like conspiracy theories, don't let me steal your tin foil hat.

I think they're just being humorous



cm-t says:

2nd Feb 2015 at 9:17 am

Well done !

Can't wait installing ubuntu on a raspberry pi !!



Bruce Tulloch says:

2nd Feb 2015 at 9:17 am

Congratulations to everyone involved. The BCM2836 looks like a real winner for the Raspberry Pi ecosystem. Well done!



bstrobl says:

2nd Feb 2015 at 9:19 am

Isthe BCM2836 a custom chip or one based on an existing Broadcom SoC with certain bits fused off? If it's custom, why not include all the USB ports and Ethernet Hub directly so you can ditch the SMSC Hub?

Regardless, Congratulations on the new Product!



Alasdair Allan says:

2nd Feb 2015 at 10:24 am

Compatibility. Basically they really wanted to keep backwards compatibility with all the older Pi's already out in the wild. Eben talks about it during his interview with me for Make: Magazine, <http://makezine.com/2015/02/02/eben-upton-raspberry-pi-2/>.



bstrobl says:

2nd Feb 2015 at 10:54 am

Thanks for the info! Had a look at the pricing on the Microchip website though and noticed a rather high price of around \$5 for the chip(The foundation ought to have a very large discount though). Might be a future thing to reduce the costs of the Pi further :).



Dany says:

3rd Feb 2015 at 8:25 am

How would this make the new boards incompatible with the old ones if the connectors are all the same? Unless it's about backwards compatibility for the future compute module or reusing the same motherboards?



G says:

2nd Feb 2015 at 3:03 pm

The 2836 is a complete new chip but it re-uses a lot of the old 2835.



Benny Tall says:

2nd Feb 2015 at 9:20 am

Great work!

I'm about to buy my first Raspberry Pi and thinking of going for this one. Is there any reason for me, as a newbie in development of embedded systems, to NOT go for this one and take a look at the A and B instead?



Michael Horne says:

2nd Feb 2015 at 10:41 am

You should definitely go for the Pi 2. More powerful than the B+.



Emanuele says:

3rd Feb 2015 at 7:17 am

Just look power consumption.

 Bernard Klatt says:

3rd Feb 2015 at 9:04 am

If you need network performance, remember the Pi II still uses the sick USB-> Ethernet I/O that cripples Ethernet speed.



Dave Whiteside says:

2nd Feb 2015 at 9:21 am

Happy birthday RPi you have a new bigger brother
well done all



JD says:

2nd Feb 2015 at 9:59 pm

Hm, what are you talking about?



Pithagoros says:

2nd Feb 2015 at 9:22 am

Somebody confirm I read that correctly please.

I thought I read the words "Windows 10".

Pinch pinch pinch.



Alasdair Allan says:

2nd Feb 2015 at 10:27 am

Yes, you read it right. Windows 10. But Microsoft is being awfully vague about what they actually intend to release. Talking to their PR people about this felt like battling fog,
<http://makezine.com/2015/02/02/microsoft-windows-support-raspberry-pi-2/>.



Leo White says:

2nd Feb 2015 at 9:26 am

Congrats to all! and well done on keeping it a secret :D

I've ordered mine and, by the time it arrives, maybe I'll have worked out what to use the extra power for!



jonathan chetwynd says:

2nd Feb 2015 at 9:26 am

Still not 2 cameras?



marvin says:

2nd Feb 2015 at 10:52 am

Still no camera for selfies ? What a fail !

Just kidding of course. Looking forward to get one to replace my model B from first batch.

I did not see any info about power consumption



mahjongg says:

2nd Feb 2015 at 9:47 pm

Power consumptions lies between the old B, and the B+, but obviously depends on what you are doing, for example how many cores are actually active, how much you are over-clocking etc. But your old PSU from your B, or B+ will in most cases simply suffice.



johndough says:

2nd Feb 2015 at 9:26 am

WOW!

Now we are getting to play with the big boys;))

its rather they wanted to play with us...



AndyD says:

2nd Feb 2015 at 9:28 am

Very exciting news. Can't wait to get one!



smartroad says:

2nd Feb 2015 at 9:32 am

Should have called it the Raspberry PI A900; naming with the Archimedes :D



Nick says:

2nd Feb 2015 at 9:33 am

Yay, Windows 10, best Pi news ever



Minecraftlog21 says:

3rd Feb 2015 at 3:53 am

I Hope most will stay on the open source linux software and os vs that nasty windows 10.



Pickfire says:

3rd Feb 2015 at 1:12 pm

But still open source is better, go open source!



johndough says:

2nd Feb 2015 at 9:35 am

WOW! Now we are getting to play with the big boys:))



Les Cook says:

2nd Feb 2015 at 9:39 am

Exciting news! This is a real step up in terms of performance – Pi 2 ordered this morning :)



Stewart Watkiss says:

2nd Feb 2015 at 9:39 am

Great news – well done to all!
I've ordered one already and looking forward to seeing how well it runs Ubuntu and other Linux software. With 1GB memory it's now as much as the Lubuntu netbook I'm currently on and hopefully the new processor will make it responsive.
Very exciting times!



Alasdair Allan says:

2nd Feb 2015 at 9:40 am

I talked to Raspberry Pi founder Eben Upton for Make: Magazine, taking a deep dive behind the scenes of the new Raspberry Pi 2. Everything that every other site doesn't have you'll find here, <http://makezine.com/2015/02/02/eben-upton-raspberry-pi-2/>.



cdu13a says:

2nd Feb 2015 at 9:40 am

Very Excited. Very Tired. Staying up late to order a pi 2. It's about 4:30am here. I had to reread the windows 10 part multiple times, since at first I thought it was the lack of sleep getting to me.



richard77 says:

2nd Feb 2015 at 9:41 am

...at about power consumption:



Eroan says:

2nd Feb 2015 at 9:43 am

Great news and great improvements, congratulations for your hard work. I'll order soon :)



AdRiley says:

2nd Feb 2015 at 9:45 am

Wow. Just wow. When I saw this in an email from Pimoroni this morning I honestly thought it was some kind of joke.

Congratulations all. Looking forward to seeing you at the Birthday bash and handing over some more cash for one of these...



Pithagoros says:

2nd Feb 2015 at 9:45 am

MyWindows 10 comment was NOT a complaint.
So stop complaining.



Huw says:

2nd Feb 2015 at 9:54 am

Really exciting stuff!

I'm happy Microsoft are on board too; it's a direction they should be taking as a business.



sam says:

2nd Feb 2015 at 10:01 am

damn, was really hoping for gigabit ethernet and usb3 to be included:(You should try and get intel to licence you their gpu for the raspberry pi 3 as their drivers are open source, would be a way better gpu.



calcprogrammer1 says:

2nd Feb 2015 at 6:26 pm

The VC4 has an open source Gallium3D driver in development too, just wait a bit longer and we'll be using that.



John Cyber says:

2nd Feb 2015 at 10:02 am

Congratulations! It will be definitely the heart of my next Kodi HTPC!



Dirk says:

2nd Feb 2015 at 10:02 am

ohshoot... Talk about bitter-sweet news; just invested in 11 Raspi B+'s for our Raspberry Jams. This would have been nice for the Mathematica workshop.
Let the try-to-return games begin :-)



Terry Yang says:

2nd Feb 2015 at 10:20 pm

I feel like an idiot for ordering more B+ pi's dang it. So you can thank me for this... everytime I order anything the next day they update it. And I thought they said they were sticking with this so as not to obsolete everybody's investment. I guess not. However, not complaining, this is amazing work at an amazing price. And, personally, I could care less about windows but if it brings in more people then Raspberry Pi will flourish (even more) and that is great for everybody (other than maybe Dell, HP, Lenovo etc who will have to scramble to cut prices even if they are selling a "full" windows 10 on their machines).

Very exciting. Particularly pleased you are adding Windows 10 support as it adds another interesting option.

I expect Microsoft's motive is simply that they want to be involved with the most recognised machine in this space. They know it makes good business sense for them.

I also would like to know if the power consumption requirements have increased with this new (and significantly more powerful) model?



robert swift says:

2nd Feb 2015 at 6:55 pm

They also have a strong developer story and are working hard to let those developers leverage their skillsets and the power of C# with the coolness of Raspberrypi. Plus they are opensourcing more and more of their code these days. They have become a player in a lot of different spaces and a responsible citizen of the community.



Chris says:

2nd Feb 2015 at 10:07 am

Very exciting. Particularly pleased you are adding Windows 10 support as it adds another interesting option.

I expect Microsoft's motive is simply that they want to be involved with the most recognised machine in this space. They know it makes good business sense for them.

I also would like to know if the power consumption requirements have increased with this new (and significantly more powerful) model?



Dirk says:

2nd Feb 2015 at 10:19 am

According to the presentation, idle consumption is comparable to the B+, peak consumption is comparable to the B model.



Marco says:

2nd Feb 2015 at 12:43 pm

Is it possible to get the presentation somewhere? Video preferred, but Slides would also be OK. :)



John Cyber says:

2nd Feb 2015 at 10:07 am

It will be definitely the heart of my next HTPC! Congratulations!



Miles says:

2nd Feb 2015 at 10:08 am

Can this new model be overclocked?



jdb says:

2nd Feb 2015 at 10:12 am

Yes. You can expect roughly the same level of overclockability on BCM2836 as BCM2835.



Liz Upton says:

2nd Feb 2015 at 10:50 am

Yes, it can.



Marco says:

2nd Feb 2015 at 12:48 pm

Awesome!

Awesome. Now, I assume, the RPi platform could be used as full Desktop replacement.



Tubatic says:

2nd Feb 2015 at 2:24 pm

Wouldn't the ARM architecture still limit software operation to ARM specific applications? ie, would still need an ARM version of [app name here] to run on ARM Windows 10?



Jack says:

2nd Feb 2015 at 10:13 am

Sweeeeeeeeeeeeeeeeeeeeeeeeeeeeeet!

I can finally surf the net on the Pi!



Igor says:

2nd Feb 2015 at 10:16 am

Exciting stuff! Can not wait to build a copter using **Navio+ HAT** on it, applications like OpenCV and SLAM immediately come to mind.



root2 says:

2nd Feb 2015 at 10:17 am

Hey guys now THAT'S GREAT NEWS!

Thank you for this next step in RasPi evolution!

Just let me ask some questions, please:

- Will it handle h265 videos?
- Is it still necessary to obtain codec packs?
- Will it handle 3d video playback?

Thanks for your answers and keep up the good things!



jdb says:

2nd Feb 2015 at 10:58 am

If you want to use the hardware MPEG2/VC1 decoder, then yes you will still need to purchase licence keys.

Enhancing software decoding of various formats using multithreaded decoders is something we'll definitely be looking at.



dave says:

2nd Feb 2015 at 12:55 pm

Quad core 900mhz armv7 cortex a7 is not going to be fast enough to play back h265 smoothly. You would need either a hardware decoder or better cpu cores.



Jongoleur says:

2nd Feb 2015 at 10:20 am

If you want a giggle, pop over to dear old Slashdot. The Pi2 is what they've been whining for since the Model B came out. And yet....

Oh well, you've kept it under your hats very well - it looks wonderful! Well done!

I've just ordered one... :-)



Peter Green says:

2nd Feb 2015 at 1:58 pm

Unfortunately /. ran with the article from the register which went out early AND contained misinformation about the CPU core. So the first pagefull of comments are moaning about something that turned out to be misinformation.

I think you'll find that all pages on /. are moaning about something.

It really is a waste of bandwidth nowadays.



Peter Green says:

3rd Feb 2015 at 1:01 am

And yet somehow I still like the place. Maybe it's just nostalgia.



Radu says:

2nd Feb 2015 at 10:21 am

What about Android? Can we run Lollipop?



rahlquist says:

2nd Feb 2015 at 1:13 pm

It's exciting to see Windows 10 coming, but very very disappointing that we still don't seem to have a working Android build. Why is it the closed source product is getting in first? Because the video drivers seem to be the choking point. Wonder if MS kicked in some sponsorship too?



Liz Upton says:

3rd Feb 2015 at 4:02 pm

No, we aren't seeing sponsorship from MS. This is an open platform, so if MS wants to develop for it, they're welcome to, and we're pleased to see them making the effort – likewise, if Android devs want to develop for the platform we're delighted to see them doing that. Our own engineering focus is on Raspbian.



Jesus Perez says:

2nd Feb 2015 at 10:32 am

Once again using the surprise factor :)

Waiting for receiving the new model in Turkey:

<http://www.samm.com/itproducts/raspberry-pi-2-turkey.html>

Best regards and congratulations.



Thomas says:

2nd Feb 2015 at 10:50 am

"What about Model A+?

Model A+ continues to be the \$20 entry-level Raspberry Pi for the time being. Although the new board is called Raspberry Pi 2 Model B, we have no plans to introduce a Raspberry Pi 2 Model A before the end of 2015."

Maybe you should change this question/answer after the announcement today ;)



W. H. Heydt says:

2nd Feb 2015 at 6:09 pm

While I suspect that the RPF would like to bring out a Pi2A, I'd tend to bet that the production lines are going to be under serious strain getting enough Pi2Bs out to meet demand. It's been mentioned that there are 100K of them at launch. Those will be gone very quickly, at a bet, and it will be a struggle to make and ship enough for at least 3 or 4 months.

There is likely to be a longer demand for the A+, anyway, as it can be used in applications that are more sensitive to keeping power requirements down than will be the case for most B/B+/Pi2B applications, so less need for a Pi2A.

Even so...I'd like to see one.

So...yeah. End of the year maybe for a Pi2A.



krzychosz says:

2nd Feb 2015 at 10:56 am



jdb says:

2nd Feb 2015 at 11:41 am

All Raspberry Pi 2s are production-tested for 900MHz and so the default clock settings for the shipped firmware run at 900MHz.

This was an improvement that came quite late in the pre-release cycle (required testing on the production line to be implemented) thus documentation may not yet be quite up to speed.



beta-tester says:

2nd Feb 2015 at 2:03 pm

800MHz in specs, but clocked with 900MHz by RPi2?
then the RPi2 is overclocked already by manufacturer!
i guess, then we can not expect as much overclock range possibility on RPi2 as on RPi in the past – if the RPi2 will be overclockable without losing warrants :?



Andrew Blank says:

2nd Feb 2015 at 5:27 pm

"We were being conservative on the frequency in case we encountered issues in production. In practice, we've found we're fine at 900MHz, with significant overclocking headroom over that." — Eben Upton, CEO at Raspberry Pi

Source: <http://makezine.com/2015/02/02/eben-upton-raspberry-pi-2/>



Roland says:

2nd Feb 2015 at 9:45 pm

What's the point of overclocking a device like this? My 3 year old dual core laptop is faster than that pi 2 can ever be. Overclocking for a device like raspberry pi doesn't make sense at all unless for the sake of overclocking itself. In that case grab your LN2 bottle and get started.:)



jon says:

2nd Feb 2015 at 10:59 am

Have you fixed the SD card corruption problem on the new version? That was the single biggest hindrance with the Pi, never really had any performance problems with it.



Ancor Gonzalez says:

2nd Feb 2015 at 2:24 pm

I wonder the same. I have had a lot of corruption problems with Pi1. The only solution has been to stick to class 4 SD cards. Class 6 and 10 always result in corruption when overclocking in my experience.

I'm afraid that "everything but the CPU is identical" means that the problems with corruption on overclocked devices will remain. :-(



Grandma says:

2nd Feb 2015 at 11:03 am

This sounds fantastic and the same price as the old much less powerful one. Feel a bit let down. I am not very computer experienced but I checked the FAQ'S before buying a B+ for my grandson before christmas and there was no indication of this, said they would be working on software not better models for a couple of years. This release immediately after christmas buying season seems a bit of a con trick from what I thought was a trustworthy organisation so they could move what was going to be outdated stock. A christmas present that has had the shine taken off it within a month.



Helen Lynn says:

2nd Feb 2015 at 11:44 am

Your grandson's B+ will carry on being just as much fun regardless of the new product, as will all the others out there. It wasn't a trick, we promise – we don't sell products directly ourselves or carry any stock (instead, our official distributors manufacture and sell it under licence). At the risk of shocked looks from my colleagues, I don't plan to get



Paulo Nignofa says:

2nd Feb 2015 at 1:40 pm

+1000



ColinD says:

2nd Feb 2015 at 11:07 am

Ohmy! Christmas has come very, very early this year :)

Many thanks :)



Dougie says:

2nd Feb 2015 at 11:07 am

Looks like I may be able to retire my Viglen MPC-L and replace it with a Pi2.

I've got one ordered.



Dougie says:

3rd Feb 2015 at 5:20 pm

The first part of my Viglen to RPi2 server migration arrived today. I now have a 160MB SATA hard drive that will carry the root filesystem.

I'll start with a 8GB SDCard, move rootfs to the HDD then shrink the /boot to fit on the smallest SDCard I can buy.

Just need the RPi2 to drop in my letter box.



Ken MacIver says:

2nd Feb 2015 at 11:13 am

Awesome...

In the finest tradition of succesful startups, will Liz's old original kitchen table being put in pride of place at Pi Towers.



Liz Upton says:

3rd Feb 2015 at 4:05 pm

I'm afraid I'm still using it!



Aleix says:

2nd Feb 2015 at 11:13 am

I'm terribly excited by this totally new development!!



Rich Steed says:

2nd Feb 2015 at 11:15 am

Brilliant news – got a model B on the 1st day, got a B+ on the first day of release (thanks to the Certified educator course), now ordered a Pi2 :)

Looking forward to bringing it into school and showing it off to my students :)



Lars says:

2nd Feb 2015 at 11:17 am

How come I cannot order via RS components anymore as a private user? Only company customers are accepted... I remember ordering my first Pi a while ago via them without any problems.

Element 14 website is down at the moment, so where can I get one?

Windows 10 and its free....! great. Suddenly have some idea of an app, using Kinect 2 for Windows and this awesome Raspberry Pi 2 board. May be HoloLens as well, if available soon.



Mike says:

2nd Feb 2015 at 11:18 am

This is crazy. How come Raspberry Pi gets every time so much better?

I'm absolutely amazed by the amount of energy you guys are putting into this and can only wish you the best!

Thank you.



Lakeuk says:

2nd Feb 2015 at 11:20 am

Got the B+ last week at a bargain price, now I know why :)

Good to see the Pi evolving while still maintaining the low price entry point



Trevd says:

2nd Feb 2015 at 11:21 am

How does Windows 10 Fit in with the RaspberryPI Foundation primary educational mission? Wasn't the fact the Microsoft had most of the UK education system sewn up and the kids where being taught how to use Word/Excel etc part of the problem in the first place?

@rudi .. It's an armv7 so yeah. I got Kitkat running on the original PI, Just need to fix up the gralloc to free it's memory properly



Ben Nuttall says:

2nd Feb 2015 at 11:38 am

Education is still the forefront of the Raspberry Pi Foundation's mission.

Windows is an IoT platform for embedded hardware/software developers. Raspbian will maintain its position as our main supported OS in education.



Clive Beale says:

2nd Feb 2015 at 12:15 pm

There are many reasons that ICT lessons in UK schools in the last 15 years often defaulted to using Office but an digital oligarchy wasn't one of them. (The 1997 Stephenson report + government action/inaction since has a lot to answer for.) On the other hand, we do know that having a wider choice of software and hardware in schools improves teaching and learning — it's why we make the Pi :)



Martin says:

2nd Feb 2015 at 11:22 am

Will it be (err... IS IT) compatible to bare-metal level?

Will i.e. PiFox etc run on it out-of-the-box?

Or do hw-addresses expected kernel-address etc shift with the new CPUs and all?

Does anyone know or have tried that?



Alasdair Allan says:

2nd Feb 2015 at 11:49 am

Eben and I talked about this during his interview for Make;
<http://makezine.com/2015/02/02/eben-upton-raspberry-pi-2/>. Apart from switching out the 700MHz ARMv6 core for a quad-core 900MHz ARMv7—and the few missing ARMv6 instructions that weren't used—this is going to be hardware compatible with the existing Pi's out in the wild.



G says:

2nd Feb 2015 at 7:58 pm



Will JIANG says:

2nd Feb 2015 at 11:43 am

Dose Win10 has source codes? If not, I still hate use Microsoft's products.



Ben Nuttall says:

2nd Feb 2015 at 11:54 am

Like the desktop PC market, you have a choice.

Raspbian will continue to be the main supported OS, for general purpose, particularly in education.



John Stead says:

2nd Feb 2015 at 11:46 am

Why not cortex A9, why the old low level A7



Jose says:

2nd Feb 2015 at 2:24 pm

Cortex A7 is newer than A9. Similar performance but lower power consumption.



MW says:

2nd Feb 2015 at 11:54 am

Great news, though not for people who bought a B+ six months ago now having to buy a new model.

Congrats must also go to Broadcom for still supporting despite their own troubles, replacing the ARMv6 with the ARMv7 in the SoC is great for backward compatibility as the GPU etc etc is not affected.

The only addition I would like is an 8GB eMMC model.

So yes this will blow Odroid, Banana and Orange and other clones out of the water, how can they compete with the RPF 3 years pricing and support and a quality UK manufactured product ?



MarkG says:

2nd Feb 2015 at 12:00 pm

Does this still have the same great low-power credentials as the original?

What current draw should I expect to see in an Idle state, compared to V1?



Ben Nuttall says:

2nd Feb 2015 at 12:02 pm

Yes it does. It's about the same level as the original Model B.



agtrier says:

2nd Feb 2015 at 12:05 pm

The question everybody has in mind but nobody dares to ask: can it run the full (Desktop) version of Minecraft? ;-)



Ben Nuttall says:

2nd Feb 2015 at 12:11 pm

If you mean on Windows, no as it's an IoT platform not a desktop OS.

If you mean on Raspbian, we were granted the licence to Minecraft Pi by Mojang. I'm not sure about the full version – if it has an ARM version maybe it will run.



agtrier says:

3rd Feb 2015 at 2:02 pm

power and memory requirements, but that might no longer be so... well, gotta try it. My new Raspberry Pi is ordered already :-)

Nothing against Minecraft Pi, BTW. It's a great educational (and fun, too!) software, but it's a lot more educational and a bit less fun than the "full" desktop Minecraft :-D



Jason says:

2nd Feb 2015 at 12:05 pm

Sorry to be negative on this fabulous news but I'm really worried about the Windows 10 support. Do you not think that newcomers to the Pi will simply see Windows 10 use that and not try any of the flavours of Linux?

I'm a Software Engineer and have been using Unix/Linux since 1990 (I do also use and develop for Windows) but we have members of our team that have never tried Linux. They are increasingly out of their depth as more Linux based machines are introduced into the business and their lives. We need more people in industry with Linux skills and I was hoping the Pi would give us that for the next generation. Your thoughts please, agree or disagree?

But to end on a high note, Ubuntu support is a real bonus.



Haggishunter says:

2nd Feb 2015 at 1:32 pm

My initial reaction was similar – having maintained a few Windows boxes at home over the years, I could never see what people liked about it, and started using Linux as soon as I could afford a PC of my own to run it on. Plus, as with smart 'phones, I can't see any advantage to being able to run viruses on a Pi.

HOWEVER, I have thought for some time that Microsoft have the potential to produce some good software given the right motivation – they are a business after all, and will at least try to adapt, and they have a lot of resources. If they're genuinely willing to dip their toes in the free & open water, I think they should be encouraged.



JOe says:

2nd Feb 2015 at 12:08 pm

Running windows on the RPi will slow it down to a crawl. I hope the foundation does not make any hardware concessions to MS.



Ben Nuttall says:

2nd Feb 2015 at 12:25 pm

Windows will not be used as a desktop – you develop your application on a PC and deploy it to the Pi. Performance will be fine for running such applications.



nightfil says:

2nd Feb 2015 at 12:09 pm

Any chance that h265 @fullhd will be supported? As far as i know the current Pi-Version supports h265@QVGA. Due to the increase cpu performance and NEON i hope that its somehow possible?



Stick says:

2nd Feb 2015 at 12:12 pm

The Sinclair Spectrum's sales record is a sitting duck...



Antony villa says:

2nd Feb 2015 at 12:12 pm

WOW, Jusy WOW,

Now Paired with OpenELEC and it will be the GREATEST Media Player Yet.

Question the cases are compatible with the B+ cases?

yes completely compatible.

obviously if you have a metal case that uses the case as heat-sink there may be the issue that the SoC is somewhat lower, and the RAM on the bottom won't use the case as heatsink, but for all other intents you can use any B+ case for the PI 2 B.



ED says:

3rd Feb 2015 at 10:43 am

Not completely compatible. "Some" (which?) PiBow B+ cases with narrow fitting layers around the old chip won't fit around the new chip. From [Adafruit](#):

The physical changes include:

- * Processor chip is larger, has moved slightly
- * The RAM is now soldered onto the bottom of the board (no longer PoP)
- * Other components and chips are moved around slightly to make space for the larger processor and RAM chip on bottom

This means that 99% of cases designed for the Raspberry Pi Model B+ will work with the Raspberry Pi 2 Model B. This includes the Adafruit B+ Pi cases. One exception is some PiBow cases which have a layer that has cutouts for the specific location of the processor. Pimoroni has informed us that they will have a new case design that is compatible with both. Check the description of any case to make sure it is compatible with both Raspberry Pi Model B+ and Raspberry Pi 2 Model B.



Ankit Banerjee says:

2nd Feb 2015 at 12:19 pm

This one's gonna be a game changer. Thank you Raspberry Pi Foundation.
My plans with the Raspberry Pi have got a huge boost.



Kris says:

2nd Feb 2015 at 12:20 pm

If you provide this unit power via usb and obtain a suitable class micro SD and install a Kodi distribution on this hook on an IR adaptor will this run Kodi with audio and video over HDMI? Or does it need something else? Congrats on the new unit looks great I've never used one before and want to get started! Also I'm curious how do you turn it on and off! :)



Richard Poole says:

2nd Feb 2015 at 1:15 pm

is,

I have a B that's hooked up to a [PiHub](#) and a bus-powered USB drive and it runs Kodi like a dream. Audio + Video over HDMI.

I don't use an IR receiver, but I don't see why this wouldn't work



Stewart Watkiss says:

2nd Feb 2015 at 2:27 pm

I have Kodi running on OSMC (Alpha 3) running on an original 256MB model B. I have a media centre remote control which came with a USB IR receiver – which works as well, all my videos are streamed as Ethernet over powerline (also works with external USB disk drive).

You can software shutdown the OS, but it still leaves the Pi powered up. I now use an Energenie IR remote control socket to turn the power off for the TV and the Raspberry Pi together so neither is left in standby when not in use.



Gordon77 says:

2nd Feb 2015 at 12:30 pm

Great News. Ordered one.



Juha says:

2nd Feb 2015 at 12:36 pm



meltwater says:

2nd Feb 2015 at 12:41 pm

Congrats!
Excellent news about the Pi2. Looking forward to seeing it run.



Neil says:

2nd Feb 2015 at 12:44 pm

Isthe ethernet on the Pi 2 still on the USB bus or is it native? (I've already ordered one regardless!)



Ben Nuttall says:

2nd Feb 2015 at 2:13 pm

Yes. In order to maintain complete backwards compatibility with Pi 1 everything but the CPU is identical.



Banana Joe says:

2nd Feb 2015 at 3:21 pm

What exactly is the benefit of this backward compatibility? It would have been no big deal to include a driver for a dedicated LANCE into a kernel.
I have switched to Banana Pro already. The lack of a dedicated Ethernet interface at 1 Gbit/s and a dedicated SATA interface were the main reasons for the switch. Sorry, but Raspberry 2 is DOA.



Ben Nuttall says:

2nd Feb 2015 at 4:59 pm

> What exactly is the benefit of this backward compatibility?

Supporting the 4.5 million customers who bought previous models, and ensuring that all software (and hardware add-ons) still work on the new model. That's the benefit.



Peter Onion says:

2nd Feb 2015 at 12:47 pm

Will the ARMv7 features be available in the ARMv6 userspace ? NEON looks like being useful :-)



mahjongg says:

2nd Feb 2015 at 10:26 pm

NEON is supported, especially of benefit for software based codices. Running 20 times faster thanks to NEON.



Jack Peters says:

2nd Feb 2015 at 12:49 pm

I would have loved a better GPU rather than all that RAM... But oh well, its still a huge improvement and I cant wait to push it.



dknute says:

2nd Feb 2015 at 12:53 pm

I had some issues with original Pis, minor USB problems and the hardware I2C not supporting repeated start condition properly. Is the Pi2 using exactly the same I/O blocks or something compatbile but better?



BK Tan says:

2nd Feb 2015 at 12:56 pm

Congratulations. Looking forward to upgrade to Pi 2.

I've been using the Raspberry Pi as a media player and didn't have many comments on the "old" model.

But I hope Raspberry in the future will move to support 1G ethernet, HDMI 1.4 and TrueHD / DTS-HD passthrough and maybe playback of 4k UHD content.

I've ordered my Pi 2 B this morning so looking forward to see what improvements this model will bring.



Anonymous says:

2nd Feb 2015 at 12:58 pm

You might want to fix the year in

"It replaced the original Raspberry Pi 1 Model B+ in February 2014." on the [product description page](#) :)



Niklas Schnelle says:

2nd Feb 2015 at 1:05 pm

Great idea on keeping the now open GPU and general board design. One of the remaining limitations of the Raspberry B/B+ is it's slow ethernet that is both 100 Mbit/s I'm assuming this is not being changed with the Raspberry Pi 2?



mahjongg says:

2nd Feb 2015 at 10:30 pm

As the USB stack is mostly software driven, a small improvement in USB speed is to be expected, but with completely compatible hardware elsewhere the improvement won't be huge.



P. Bohk says:

2nd Feb 2015 at 1:07 pm

where can i buy it for 35 \$? Here in Germany is the price 42 EUR ! Comparing to model B – 30EUR....
Regards



Texy says:

2nd Feb 2015 at 1:22 pm

\$35 without taxes or delivery, as has been mentioned many times before. Unless you expect the supplier to pay those for you?
Texy



Christian Nobel says:

2nd Feb 2015 at 8:49 pm

Nonsens.

Here in Denmark the net. price excl. delivery and VAT is 190,- DKK (recently reduced from 194,24 DKK) for the model B+, where the price for the model 2 is 227,19 DKK – in other words the model 2 is 19,6% more expensive.

And we saw the same with the model A+ claimed to be 20% cheaper, but the price did not drop a cent compared to the A price.

I think that it is damaging to RPi's credibility coming with these claims that are not true.



Richard Ahlquist says:

3rd Feb 2015 at 5:07 am

@Christian Nobel 227,19DKK at today's exchange rate is USD \$34.56. Pretty close to the advertised price.



Christian Nobel says:

3rd Feb 2015 at 12:14 pm

You don't get the point.

do raise objections to is the statement that the price is the same as the old one, which is definitely not.

If the statement instead had been that the RPi 2 would be approx 20% more expensive than the B+, I would have considered it much more honest.



James Hughes says:

3rd Feb 2015 at 1:47 pm

You don't need a calculator to know that the old Pi was \$35 and the new Pi is \$35. That's a 0%, not 20% difference.

What third party distributors then charge is nothing to do with the Foundation, and if someone is overcharging, then go somewhere else. You should be able to get them for \$35 plus tax and shipping, exactly as was the case with PiMk1.



Tobias Hübner says:

3rd Feb 2015 at 7:20 am

Just ordered two Raspberry Pi 2 here in Germany via RS Online. I paid 72,78€ including shipping.



Bob says:

2nd Feb 2015 at 1:13 pm

I ordered a B+ last week and it arrived at 10:30 this morning – if only I had waited a week :-)
It's still good news and sure I will get around to a '2' before too long :-)



Juha says:

2nd Feb 2015 at 1:16 pm

Ordered one. Will be interesting to perf test it against odroid-c1.



Ioannis says:

2nd Feb 2015 at 1:16 pm

i
Extremely good news !!
Especially because we are 100% compatible with it
Warmest Regards
Ioannis
<http://www.pimodues.com>



rahlquist says:

2nd Feb 2015 at 1:17 pm

Would still love to see a working Android build with accelerated video. Is there no hope of that ever going forward?



neutronscoot says:

2nd Feb 2015 at 1:39 pm

Exactly. One of the reasons I stayed up and bought the pi on launch day was because I was certain we'd get Android.

Staying away from closed chipsets now. Bah!



James Hughes says:

2nd Feb 2015 at 1:46 pm

Nothing to do with closed chipsets really. Lots of closed chipsets out there run Android. In fact, the Pi chip is the most open of all the ARM cores.

And of course, Caveat Emptor. No one promised Android...

That said, this device is more likely to work OK with Android than the old one.

Thanks James. While I know nobody promised Android, we all hold out hope. For me Linux is fine but taking a broader look, Android would help increase penetration, desire and enthusiasm. Just my 2cents. While chipsets are not the issue your own posts point out the now defunct Android 4.0 project was in part to build the HW acceleration libraries needed to make things work more smoothly on the back end. To that end, I think honestly this should be re-approached, perhaps someone at Google under NDA with Broadcom would be willing to help?

A cross post of my comment over at Make with Eben's interview about the Pi 2.

They exist to get kids programming, and that is a noble goal, yet they continue to pass over Android. I understand there has been difficulty getting video acceleration working but think about this.

If I make a proprietary programmable toaster but the code only runs on the toaster, then the benefit of getting someone to learn how to code on it is limited, the kids will see it and go, "Oh, yeah I can make this do some cool stuff". But only other people with that toaster can use what I have done.

Give them the ability to learn to code on a device supporting Android and many more will want one, so they can make apps for their (and their friends) phones. Being able to code on a standard Linux platform is a great skill, but from the mind of the youth, being able to code something they can share with others, who don't have the Pi Passion (and hardware), that would be priceless and bring a whole new level of enthusiasm to the mix.



James Hughes says:

2nd Feb 2015 at 2:23 pm

I not convinced Android gives any advantage in education. You need a fairly big machine to build for Android, a Pi2 would struggle immensely. So you need a PC for the build environment, and deploy to a Raspberry or other Android device.

Add to that the specific Java used for Android apps, and the benefits are few and far between.

You learn much more on a Linux device – Linux command line, any language you want (including Scratch), most of the entire Linux application repos is available.



ric96 says:

2nd Feb 2015 at 1:19 pm

RS was kind enough to swap my B+ (Freshly ordered, untouched) with a Pi2 For A small fee. YAY!



Paulo Nignofa says:

2nd Feb 2015 at 1:20 pm

Congratulation for this new release.

May I point out that the Model B+ page on this very site was mentioning "this is the final hardware evolution of the project idea we had".

Based on this I bought mine 2 weeks ago with cam and case and for sure I would have prefer this one as it can run Ubuntu.

I am happy that the Raspberry Pi exists, I am happy that a project like this progresses, for the kids it targets and for the community built around it, but I feel very frustrated that this has been kept as a secret, and even more by the incorrect statement in the model B+ page that lead me to buy a B+ two weeks before a "6 times more powerful" pops out.

This is not something I was expecting from a charity foundation.



James Hughes says:

2nd Feb 2015 at 1:53 pm

The Foundation never announces stuff like this 'upfront' because if they did the shelves would be full of older models that are difficult to sell. It's a shame that there are people out there who have just bought B+'s but I am afraid there is not much that can be done about it.

The B+ was the final evolution of the Bcm2835 version. It has always been accepted that there would be a replacement device at some point – that point is actually a couple of years earlier than previously predicted.

I would like to make a couple of comments on this new development – having worked with Pi's since they first appeared.

I currently own 7 Raspberry Pi's going back to an early first generation Model B, Model A's and Model B+'s. I also am the main Pi support engineer in Kirklees College I.T. Department here in West Yorkshire.

I think its quite a good move to be able to offer a Windows 10 development environment – as this will allow the development of core apps that run under Windows 10. This should in theory (and I cant wait to test the theory) – allow one to craft Windows 10 apps that will be able to run with a Windows Domain Account enabled – making the Raspberry Pi's into native domain devices – anyone working in a big Windows Domain environment will know what I am getting at.

This will in my opinion legitimise the Pi as a piece of hardware within a CORPORATE environment – which may open up a whole new market place for Eben's new baby. I am already considering a Windows 10 based Kiosk system that can be used by students in our Libraries / Learning Resources Centres – and I can also see opportunities for low cost digital signage solutions here in the College. The fact it will be running Windows means I DON'T have to fight with my I.T. Department to justify purchasing NON windows capable devices – I can just point out "its like a 'bare bones' Surface Tablet" – and hopefully the "powers that be" further up the food chain wont have any alarm bells ringing over my purchasing non standard hardware :-)

In addition the ability to support Ubuntu will also open up larger worldwide educational markets as well. All this is only going to encourage NEW people / organisations / corporations to consider investing in Pi hardware, people who considered the Pi to be not mainstream enough will now be thinking – differently now it can run Windows.

All in all I think this sees a step change in the size of the global marketplace for the Raspberry Pi – all in all its a superb move.

Chris Rose – Kirklees College



jdb says:

2nd Feb 2015 at 3:21 pm

This comment right here should be required reading for detractors spouting "Windows 10 negates the educational focus of the Pi".

Microsoft pushing Win 10 for Devices on to Pi 2 will open up more market opportunities – specifically targeting already-established Windows-based dev houses and the "Maker Pro" segment.

Raspbian (or at the very least a comparable Linux platform) is and will continue to be the OS of choice for our education-targeted apps and resources.



MW says:

2nd Feb 2015 at 1:28 pm

It would appear that many responders have not grasped the fact the BCM2835 / 36 SoC is basically a GPU with a CPU attached, as can be visualised by understanding the boot process when powered applied.

Therefore the A+, B+ and Pi2 B still use the 9514 USB/LAN Chipset, yes 10/100 LAN but in real terms it is fast enough for most uses.

Regards HDMI Spec the GPU is limited to what was available at the time it was developed.

Therefore either except the limitations which backward compatibility has bought about, or throw 3 years of work away by using a different SoC.....

You can please some of the people some of the time, but not all the people all of the time !



Roger Smith says:

2nd Feb 2015 at 1:33 pm

Interesting interview from Make, but the sound quality defies description, abysmal doesn't even begin to cut it. Eben's voice (which is very good in a proper recording) veers randomly between shouty and speaking from the bottom of a bucket of custard.

Thank you! This is so amazing! February 2nd is my birthday and this is my favorite present and I am so happy the the pi foundation released this amazing board on my birthday! I will remember this the rest of my life!



Alexmrb says:

2nd Feb 2015 at 1:39 pm

I know this may be an unintelligent question, but will you be able to control the GPIO pins with Python on the new Raspberry Pi in Windows AND Ubuntu? Or will you just be able to control them in Ubuntu?



Daniel Gran says:

2nd Feb 2015 at 1:39 pm

This is excellent news with the improved arm7 cpu! I cannot wait to get my hands on the second edition. The improved performance should prove very useful for a Java developer running heavy programs.



Gert van Biljon says:

2nd Feb 2015 at 1:43 pm

Congratulations!
Keep up the good work!!



Red Baron says:

2nd Feb 2015 at 1:49 pm

Not happy about the Windows-thing going on here...The article (and not only this one here) states how "we want to make Raspberry Pi more open over time, not less". Most of the hardware is de facto close source and pretty tightly guarded (ARM, Broadcom etc. hopefully ring a bell here). Okay, I can live with that. Further we go along the line of all the proprietary firmwares and drivers without which the Raspberry Pi will be just a pile of useless junk since considering the lack of information there is no way (none that I know of) of writing a completely open source equivalent of those. But on top of that you now want to provide Windows as an alternative to Linux on this platform. Yes, open source is also about being able to make the choice but Windows is omho a HUGE step backwards from what the goal is claimed to be. At least don't pretend what your goal is. Don't get me wrong – I love the fact that there is a Raspberry Pi but making open source (both hardware and software) the main slogan is just ridiculous.



Texy says:

2nd Feb 2015 at 3:16 pm

You don't want Windows? Fine – don't use it. Is Linux or any other OS going to suffer on the Pi because it's an additional option – I very much doubt it. Will the educational goals of the Foundation going to change because of it? Certainly not.....
Texy



kneekoo says:

2nd Feb 2015 at 1:53 pm

Awesome news! Congrats to everyone involved in building the new Pi! Now I can barely wait to tinker with one. :D
Woo-hoo! \o/



Justin Resuta says:

2nd Feb 2015 at 2:10 pm

How can I order this in the US?



mahjongg says:

2nd Feb 2015 at 10:35 pm

Same channels as the older models.
RS and Farnell both have US branches, which sell them NOW.

really awesome :)
and we have lot of interest on this kernel source.
so where we can expect this???

**PeterF** says:

2nd Feb 2015 at 2:26 pm

Fantastic news – mine is on its way! Well done to all the midnight oil burners!

As far as naming is concerned, calling it Pi2 is safe and logical, but a processor tweak and memory doubling makes it more like a MASTER!

(I've still got my Beeb (B) and MASTER (and A310) and all the rest of the paraphenalia...)

**meigrafd** says:

2nd Feb 2015 at 2:35 pm

Whats about the internal connection between SoC and LAN/USB Chip, is that improved that too?

Or is it still connected over only one USB2.0 line?

**ChristianB** says:

2nd Feb 2015 at 2:35 pm

Great news! Do you know when it will be available to a online store that ship to Canada? I got the B+, great device but CPU is always 100% when playing a movie. This one will be better and I could use by B+ at something else :)

yayyy Pi 2!!!!

**Dominic Amann** says:

3rd Feb 2015 at 3:15 am

The Pi is available for shipment to Canada from Farnell . I ordered one from MCM . but I always ship my stuff to a Niagara Falls address and pop over the border periodically and pick it up.

**funky jamma** says:

2nd Feb 2015 at 2:42 pm

great i wish they would have said something about this being released instead of me buying a model B+ last week. I would have waited.

**Florian Manach** says:

2nd Feb 2015 at 2:46 pm

Congratulation to the foundation for this game-changing release and thank you for making it backwards compatible with the B+.

**markit** says:

2nd Feb 2015 at 2:49 pm

Good new on hardware side, very bad on software one with Windows 10! I'm sure M\$ will be able to shift our students from a open platform friend to knowledge (the source code is available to study, learn and change) to the "next generation of closed source producers" that will use tools of M\$ and will want them once grow up.

I think the educational goal of the foundation is almost dead, with a slow path started with proprietary minecraft, mathematics, the "store" etc..

Sarcasm on: will not be great use M\$ Win10 at school and have it at home and in the smartphone? Yeah, who cares about educate children to freedom and be able to build the digital world themselves?

**James Hughes** says:

2nd Feb 2015 at 3:29 pm

You realise that the Windows stuff is in addition to all the Linux stuff? Not instead of? It's all purely optional.



markit says:

2nd Feb 2015 at 3:58 pm

I do, and do you realize how things are going to go? I've seen the raise of M\$ monopoly from the beginning, and I know how hard is educate people to value freedom and use their brain, against have the next M\$ Whatever or iSomething that knows what you want much better than you.

Do you really think that having M\$ on Rpi will be an improvement to achieve user's freedom (as software users, is not "freedom of choose") and have children dig and use more Free software that is the only one compatible with education? Putting secret code in their hands, a clear path to the "usual world" that the foundation said wanted to change looks very silly to me. Children don't know anything else that M\$ Windows or MacOS, is what they expect when they turn a computer on, they expect to have a "store" and apps to download and use without having any idea that they can't control them, or what they really are. If they will have the choice, what they will choose? The OS with plenty of familiar apps, or the one that preserves their freedom? On your opinion, having Win10 on Rpi is going to improve their freedom and knowledge or reduce it? Will we have more people involved in free software having M\$ Win10 on the Rpi?



Yuhong Bao says:

2nd Feb 2015 at 2:50 pm

Why did it took so long to move to ARMv7?



James Hughes says:

2nd Feb 2015 at 3:09 pm

Waiting for the right chip to become available – a backwards compatible upgrade path was required.



Ta'Ku says:

2nd Feb 2015 at 2:50 pm

Should have named it Raspberry Tau =)



3xBackups says:

3rd Feb 2015 at 3:00 am

Much as I agree with you. A lot of people would have though it was a knock off called that. Tau makes so much more sense than 2 pi everywhere.



Roslyn says:

2nd Feb 2015 at 2:57 pm

I feel disappointed about wasting efforts taking windows into the platform. For me this project meant freedom, openness exactly the opposite values microsoft promotes.



James Hughes says:

2nd Feb 2015 at 3:27 pm

Well, it's MS making the effort, very little work at the Foundation end. They can spend their money where they want!



Cù Đức Tùng says:

2nd Feb 2015 at 3:14 pm

I live in Vietnam. when i can buy this :x.... thanks s^^



Peter Andrijeczko says:

2nd Feb 2015 at 3:16 pm

Quad core – a positive forward step.
Windows 10 – a backwards step and a deal with the devil.

This is great news :-)

The forums are down because high traffic, I haven't seen that yet...



Abhi'an says:

2nd Feb 2015 at 3:22 pm

Isthere any purchase link for India? Or do they ship to India?



Dave says:

2nd Feb 2015 at 3:25 pm

Lovely to hear this great news.

I've just ordered yet another Pi.

My collection so far:

x2 Combined networked doorbell and automated RGB LED porchlight (Internet of things begins).

x1 Giant 6ft long bighak (lifesize working version of the beloved 80's bigtrak).

x1 Wifi 3D printer server.

x1 Gifted to a friend so they can get into programming.

x1 Research machine to help REMAP control a kindle via voice to aid the disabled.

The new one... would love to continue my handheld kinect based 3D scanner project, but being honest, it's going to become my minecraft server!



elmo says:

2nd Feb 2015 at 3:29 pm

Will faster CPU affect somehow ethernet transfer? For now in model B when copying something over ethernet CPU gets 60-80% usage because of the kworker process. With more powerful CPU maybe it would be a little faster?

I know that backward compatibility is the most important for you, but damn – I would really love gigabit ethernet in Pi, it would be just perfect machine :)

Anyway nice update, keep going with this awesome job! :)



James Hughes says:

2nd Feb 2015 at 3:36 pm

I believe it may be a bit faster, but I've not done any tests.



David says:

2nd Feb 2015 at 3:33 pm

People seem to look for excuses to complain. This is a great improvement. Only thing better would be if the compute module could handle extra memory.



Shawn says:

2nd Feb 2015 at 3:34 pm

Great news! Now if we could just get wifi and bt onboard, this thing would rock!



travis says:

2nd Feb 2015 at 3:39 pm

Glad to see more power coming to the Pi.

I'm sad to see Windows 10 as a "selling point" though. This community should not be supporting restrictive proprietary software... The Pi is about tinkering and making things while Microsoft is about marketing and spying.



James Hughes says:

2nd Feb 2015 at 4:13 pm

The community isn't supporting it, Microsoft are. The Foundation is putting a tiny bit of work in but not much.



Peter Andrijeczko says:

3rd Feb 2015 at 9:14 am

The primary role of the Foundation is to bring cheap and open computing into schools and the education system, for that they have succeeded extremely well and should be applauded.

But education and the ability to program computers should not be subject to the whim of evil corporations, in their first exposure to computers, kids should be taught to use open and free tools exclusively such that it doesn't matter whether or not they or their parents can afford to pay a Microsoft tax, or indeed want to.

If Microsoft want to crowbar their bloated and proprietary operating systems onto Raspberry Pi then I guess that's their right, but the Foundation should not be assisting them in doing so.

Let's not forget that the vast majority of important programming tools in Linux are Open Source and have Windows equivalents. Therefore if a kid later on wants to run those tools in Windows, so be it, but that's then his or her choice.

Until that point, there should be a clear distinction between education and corporate profits.



Ben Nuttall says:

4th Feb 2015 at 1:14 am

1. Our education focus is stronger than ever – we have a team of people [writing resources](#) and [training teachers](#).
2. By definition of the way the Raspberry Pi Foundation is formed, any profits made from the sale of Raspberry Pi goes towards our own education mission or to those doing other education projects through our [Education Fund](#).
3. The Windows 10 image for Pi will be an IoT platform for developers – not a Windows desktop and certainly not replacing anything we do using Linux in education. Raspbian will continue to be the recommended and fully supported OS for general use and use in education.



Douglas says:

2nd Feb 2015 at 3:42 pm

Buy link? 3rd- party casing options? Very excited! Thank you for making this product!!



Ben says:

2nd Feb 2015 at 3:45 pm

hoho ho !
Now I have a browser :)



Bytes says:

2nd Feb 2015 at 3:48 pm

Can't wait for ubuntu or android lolipop for raspberry pi 2 XD



Tom says:

2nd Feb 2015 at 3:49 pm

That's great news!
I still am using my Model B 256mb so I'm pretty sure to order as fast as possible.
Unfortunately I'm located in Belgium and the Belgium distributor doesn't seem to have knowledge yet of the new Pi 2.
I know this is rather a logistics issue than a something concerning the foundation, but does anyone have an estimate when the Pi 2 will be available internationally? (seems RS still has them, but the Belgian site of RS only accepts companies with VAT number to buy).



David Lowe says:

2nd Feb 2015 at 3:50 pm

Nice to see the Broadcom sinc logo appear on the board at last – a little bit more advertising payback for them can only help bolster the Pi's future.

I wish raspberry could partner with someone like amazon or newegg. They both have fantastic customer service. I would like to order one of these today but neither of the etailers offers paypal payments or live chat support.



Simon Mijares says:

2nd Feb 2015 at 9:28 pm

I could make good use of some amazon credits in this board



andrum99 says:

2nd Feb 2015 at 4:02 pm

Wow – custom SoC! Quad core – very nice!

However, you really should have called this the Raspberry Pi Model B+. Calling it model B is going to properly confuse folk looking for cases and add-ons, as well as confusing retailers.



Dan says:

2nd Feb 2015 at 4:04 pm

Does anyone know where to find a "UK" made Pi 2 in the US? All of the places that I've checked are selling models that are made in China, including Element 14.



andrum99 says:

2nd Feb 2015 at 4:05 pm

Obviously I meant to say Raspberry Pi 2 Model B+ – doh!



ndm says:

2nd Feb 2015 at 4:07 pm

Jeeej now I can have a Pi with an OS that costs more than the hardware...

I don't know why MS is supporting this, but I'm sure it's an evil scheme. The only dos related thing my Pi will ever come close to will be barbados, and even those chances are very, very slim.



James Hughes says:

2nd Feb 2015 at 5:03 pm

Fear not, there will be no legal requirement to run Windows if you don't want to. But we do have some tinfoil hats you might like to consider.

Also, Barbados is nice, you should take your Pi there. Wear sunblock (that goes for both of you)



Dan says:

2nd Feb 2015 at 4:09 pm

Does anyone know where to purchase the "Made in UK" version of the Pi 2 that ships to the US? All of the places that I've called only carry models made in China, including Element 14.



Matt says:

2nd Feb 2015 at 6:32 pm

I will not buy one if it is made in China. Can someone verify where these are being made?



mahjongg says:

2nd Feb 2015 at 10:42 pm

they are ALL made (assembled) in the UK, only the printed circuit boards are made in China, with "made in china" printed on them, perhaps that is where the confusion stems from.



Matt says:

3rd Feb 2015 at 12:39 am

I bought two of the original Model B rev 2.0 boards, and they both have "Made in the UK" printed on the PCBs, so this is not true. Can we get an official response on whether the Raspberry Pi 2 is made in the UK or not?



Dan says:

3rd Feb 2015 at 12:40 am

That's interesting. I contacted a reseller in the UK, and they said the boards that they have say "Made in the UK" on them. Maybe I'm misunderstanding, but it sounds like you are saying that they all say "Made in China" on them, even though they are assembled in the UK. Is it possible to purchase Raspberry Pi 2 B's that say "Made in the UK" on the circuit board? If so, what suppliers in the US will have them?



Ben Nuttall says:

4th Feb 2015 at 1:40 am

The Raspberry Pi is designed in Cambridge, UK by Raspberry Pi engineers and manufactured by Sony in Pencoed in Wales, UK. They say "Made in the UK" on the board.

However a small proportion are manufactured on behalf of Premier Farnell in China – but these are for the Eastern markets.



SergeantFTC says:

2nd Feb 2015 at 4:10 pm

What is the 2836's RAM limit? Is there a possibility of the foundation releasing a model with more RAM but the same processor, as happened with the original Pi?



David Adams says:

2nd Feb 2015 at 4:13 pm

Read the post, bought the PI2, then re-read the post just to make sure I wasn't dreaming! I actually bought my first PI (a PI1B+) at Christmas and I'm MORE THAN HAPPY for this to be out now because at this price, my old one will be soon fitted to a robot, or running a NAS, or controlling my TV, or connecting my caravan alarm to my phone, or being used as an infra-red time-lapse camera or.....

A massive well done the the Raspberry PI Foundation. You guys are an inspiration.



Hemna says:

2nd Feb 2015 at 4:14 pm

Nice bump in specs, but disappointing that there is still no SATA support. SD slot as a hard drive is just unusable over time. I've tried many different SD cards, sizes, manufacturers and they all eventually fail after a few weeks of uptime.

Back to buying banana Pi for me.



Mike says:

2nd Feb 2015 at 4:15 pm

This is awesome news – can't wait to get my hands on one of these. I'm especially interested to see the performance improvements that will come for the Mono framework and Monodevelop on the Pi now we have ARMv7 ... I personally see a native ARMv7 Mono build as a better route to Cross Platform development for existing windows developers than the Windows 10 IoT release!



Drentsoft says:

2nd Feb 2015 at 4:18 pm

Neat, just ordered a couple :D

@Ben I assume when you say it power consumption of the original B that's about 700ma+/3.5W?

What about the Compute Module?

You say in the medium term... how long is it? 2-3 Months or more?

Also in the raspi.tv video the power supply is a little diferent.

the compute module 2 will be a direct replacement with the actual?

Thanks for all the hard work



Keith Sloan says:

2nd Feb 2015 at 4:29 pm

Interesting, but not sure how much of a boost the new CPU will be given that my Pi is already clocked at 900Mhz. Okay Arm7 probably runs quicker than Arm6 at same clock speed. Surely the things that will see the main improvment will be things that can exploit four cores, Perhaps it will become clearer over time which things can and which things cannot.



James Hughes says:

2nd Feb 2015 at 5:05 pm

Running something like LXDE shows massive improvements – all those threads running to update the display, run the little widgets etc can run over different cores, meaning your main app, even if single threaded, now has a whole core to itself. That's 15% right there. Add the additional cache, NEON instructions, cortex-a7 optimisations and you should see a decent benefit.



SergeantFTC says:

2nd Feb 2015 at 4:33 pm

What is the 2836's RAM limit? Is there a possibility of the foundation releasing a model with more RAM but the same processor, as was done with the original Pi?



James Hughes says:

2nd Feb 2015 at 4:37 pm

1GB, so at max already.



FiredUp says:

2nd Feb 2015 at 4:45 pm

Atonly \$35, everybody should have one.



bakul says:

2nd Feb 2015 at 5:11 pm

Congrats, guys! Very glad to see the Pi evolution continuel

For the non Linux/windows oses, where do we find all the relevant info for building new kernels? Things like how to enable all four cores, any differences from the current IP addresses etc.? Thanks!



bakul says:

2nd Feb 2015 at 5:32 pm

Meant to ask about any differences in IO addresses, not IP!



dom says:

2nd Feb 2015 at 6:18 pm

Linux tree has been updated to support Pi2, so that would be the best place to look. Main changes are peripherals have moved from 0x20000000 to 0x3f000000, and bus addresses for sdram (e.g. prodiding an sdram to dma or gpu) have moved from 0x40000000 to 0xc0000000 (i.e. no longer in GPU's L2 cache).

This commit may be informative:

<https://github.com/raspberrypi/userland/commit/3b81b91c18ff19f97033e146a9f3262ca631f0e9>

This was really nice and a surprise :D, waiting to get one in my hands here in Brazil.
 Congratulations Raspberry Pi Foundation!



Jeremy says:

2nd Feb 2015 at 5:12 pm

Looks to be the same form factor as the B+. Can anyone confirm that?



James Hughes says:

2nd Feb 2015 at 5:36 pm

Yes, exactly the same form factor. Couple of components on the board itself have moved slightly (CPU, RAM), but board is same size, and connectors in the same place.



Andrew G says:

2nd Feb 2015 at 5:19 pm

Very happy to see the upgrade in processor and memory; however, at the same time was saddened to see that NIC and USB were not upgraded too. Really wanted to see a 10/100/1000 NIC and USB 3.0/3.1 for new version; data throughput has been a substantial hurdle for me, I guess it will continue to be a drawback.



James Hughes says:

2nd Feb 2015 at 6:02 pm

That would require chip level support. The Bcm2636 would have taken at least a year more to get those added and would cost more as a consequence, then add on to that the software development time. Going to a completely different chip would break all the current projects (and there are 4.5M mk1's out there, a big market you don't really want to hurt), so not an option.



John says:

2nd Feb 2015 at 8:42 pm

I don't really see how adding USB 3.0 would break past Pi projects since USB 3.0 is by design able to step down to USB 1.0/2.0 speeds if necessary.

Same for ethernet – if you can go 1000, then why not, and if an older project can only run 10/100 then it'll step down as it's designed to do that.

As for time to code all that – I concede that would take time, but the hardware part shouldn't be that much of a hurdle due to how NICs and USB is supposed to handshake and talk at the slowest necessary speed.

Great to see and read all you all have worked for turning out so well for you and workers/hobbyists/tinkers/HTPCers etc around the world.



Peter den Haan says:

3rd Feb 2015 at 9:39 am

The issue is not what you connect to USB/ethernet. You're right, the bus will step down and remain compatible.

The issue, rather, is the software driving the USB3/gigabit hardware implementation. USB is integrated in the Broadcom SoC, so for USB3 you would need a different chip. Maybe the Broadcom folks would be able and willing to rework the SoC USB just for the Pi. Maybe you'd be forced to a different SoC altogether. Either way, you would at the very least have a new USB stack requiring new software to drive it.

The Pi's ethernet interface works off the USB bus. A gigabit interface on USB3 would work, but again you'd be looking at a different ethernet chip – and thereby also a different USB hub, since both are integrated on the same chip.

By the time you've done all that, you've basically created a new hardware platform that would certainly take a while to reach the level of stability, maturity and support that is such a distinguishing feature of the Raspberry Pi.



Sascha says:

3rd Feb 2015 at 9:04 am



Jimmy Foster says:

2nd Feb 2015 at 5:21 pm

Yaaay!! You guys rock!



Steve says:

2nd Feb 2015 at 5:23 pm

Does anyone know if the Pi 2 has gigabit ethernet?



KTB says:

2nd Feb 2015 at 5:32 pm

It does not.



kumo says:

3rd Feb 2015 at 5:06 am

This is why I haven't bought one.



John says:

2nd Feb 2015 at 5:31 pm

I'd prefer to see an investment in Mint over Ubuntu. Just my very limited experience that it works a bit better on less powerful hardware and comes more readily with lighter weight interfaces.



Stewart Watkiss says:

3rd Feb 2015 at 11:01 am

John,

Linux Mint does not currently provide a version for arm and have no plans to as far as I'm aware. So to create a version for the Raspberry Pi would involve building it all from source which would be a very big undertaking.

Ubuntu has had a ARMv7 image for some time and the reason it wasn't on the Pi before is because they'd made the decision not to use ARMv6 which is the processor on the previous versions of the Pi.

The version currently available for the Raspberry Pi is the Snappy Ubuntu Core, which is specific version of Ubuntu created for cloud platforms, IoT and as the basis for the Ubuntu phone. Ubuntu even provide a guide to porting to other devices "Snappy for Devices porting guide".

I expect that Raspbian will continue to be the default OS that most people use, but Ubuntu Snappy Core provides another option which I think is going to be interesting.



Vince says:

2nd Feb 2015 at 5:38 pm

You rock! :)



Claudia says:

2nd Feb 2015 at 5:48 pm

I bought a Pi last week (A+). I was planning to do a retro portable console so the form factor and the low battery usage were reasons why I considered it. So, is there any plan to release a Pi 2 A+ anytime soon? It would be awesome to have another extra USB and maybe beef up the RAM and processor a bit but otherwise, it's perfect! Anyway, I'm kinda broke but I'm planning to get the Pi 2 soon, should be perfect as a media center.



Andrew R. says:

2nd Feb 2015 at 5:48 pm

Just want to say thank you for all the hard work you guys put into this project. Its very much appreciated that the Raspberry Pi project continues to grow. I'm sure over the next



Pepe Lopez says:

2nd Feb 2015 at 5:49 pm

This is good news.

I am the happy owner of 5 Pis: NAS, Robot, Internet Radio...

But if you really need more power, Gigabit Ethernet, Ubuntu...

Have a look at Odroid C1... that's a big step forward.

Greetings from Spain.



James Hughes says:

2nd Feb 2015 at 5:54 pm

The C1 has A5 cores, not A7's – they are much slower for the same clock. So we expect the Pi2 to be as fast as the C1, if not faster.



Pepe Lopez says:

2nd Feb 2015 at 7:15 pm

I would like to add a link.

It could be useful for people who asked for a comparison with Odroid C-1.

And, please, bear in mind that I don't want to put you down but to provide information to other users.

<http://www.cnx-software.com/2015/02/02/raspberry-pi-2-odroid-c1-development-boards-comparison/>

PS: I've just ordered a Pi-2 from my retailer in Spain. 8-)



Peter Green says:

3rd Feb 2015 at 1:25 am

What i'd like to see is some actual benchmarks, sure the higher clocked A5 has more DMIPs but how does it perform under real workloads?



Hussam says:

3rd Feb 2015 at 1:32 am

The ODroid-C1's Cortex A5 core has 1.57DMips/MHz so at 1.5GHz you have a total of 2355DMips per core. Whereas the RPi based on Cortex-A7 (1.9DMips/MHz) at 900MHz has a total of 1710 DMIPs per core. Based on these theoretical values the C1 should still exhibit about 37% more performance.

Ofcourse this is all theoretical and based on marketing speak...only proper benchmarking will prove one to be more performant than the other. I personally have a C1 and have ordered an RPi2 as well.



JBeale says:

2nd Feb 2015 at 5:50 pm

Surprised and pleased by a new quad-core device so soon after the B+/A+. I ordered a few (In the USA, MCM Electronics said RP2 is both "coming soon" on the main page, and then on the order page "in stock"; but we shall see). Even if the old USB architecture hasn't changed, the CPU improvement may make some USB video camera devices usable on model 2 that were not on the older model; we can hope. Maybe a single Pi2 can now support several USB cameras at once for motion detection, if the limit before was 'motion' % CPU, rather than USB bandwidth.



Mark O says:

2nd Feb 2015 at 5:51 pm

The rest are just hardware boards. RasPi is a revolution, a tidal wave, a community who want the world to realise you can have as much fun with and learn much much more with a £25 computer than you can with one 40 times as expensive.

Love what you're doing Raspi foundation; evolving, listening and a constant stream of h/w and software answering our requests.

Love the community and how much I've learnt from the community and enjoyed surfing the Raspi wave.

I've a B+ in a robot, another in a Kodi/OSMC media controller and just ordered a 3rd for

**expandables** says:

2nd Feb 2015 at 5:53 pm

Hi will the original software on the b+ work on the pi 2?

**James Hughes** says:

2nd Feb 2015 at 6:04 pm

S.

**ItsMe** says:

2nd Feb 2015 at 6:03 pm

Ooooh you can't imagine how happy this makes me! i was lookin' for a more powerful replacement for my raspberry pi which i used as Homesever (Media/Web/Light-home-automation) and in turn would use my old pi for developement. But there was no board that suited my needs.

Besides !THE PRICE! the compatibility is the best aspect. plus i can be sure that there will be a huge community that can help me out.

Thank you so much!
Keep up the good work! I'm so excited!!

**Brian Bowman** says:

2nd Feb 2015 at 6:04 pm

And The Pi Foundation do it yet again :) Already ordered mine!

**Sean** says:

2nd Feb 2015 at 6:06 pm

This could've been an awful april fool's if you'd waited until april... When I saw the post on the BBC I thought it was someone getting a little confused... but congratulations!

**R** says:

2nd Feb 2015 at 6:08 pm

Any idea what the power consumption is? I know part of the original selling point of the original Pi was how low powered it was. (About the cost of a burger from a fast food outlet to run it for a year I think.)

**Junior Reis** says:

2nd Feb 2015 at 6:14 pm

Waiting for the sale on Aliexpress ... But if someone has a site that is already selling would be great help ...

**konstantinos** says:

2nd Feb 2015 at 6:18 pm

hello there! will raspberry 2 support flash?

**dom** says:

2nd Feb 2015 at 9:15 pm

No. Adobe dropped support for flash on Arm 18 months ago. It's a dead standard.

**konstantinos** says:

3rd Feb 2015 at 2:34 am

but a lot of websites-webgames-apps are build using flash..

**Christos** says:

2nd Feb 2015 at 6:24 pm

project and then in order the new Pi 2 to start another couple of projects ! Thank you very much for enabling us to delve into the beautiful world of programming, learn new things, and help us create our very own "smart" devices ! Greetings from Greece, keep up the good work !



Emilio says:

2nd Feb 2015 at 6:26 pm

shut up and take my money



Mo3bius says:

2nd Feb 2015 at 6:28 pm

Does this mean, that Raspbian is now unnecessary? Should I install <https://wiki.debian.org/ArmHardFloatPort> ?

I am just confused here, because raspbian is a port of debian to arm6 and will not be able to use arm7 features, but is still recommended ?!



Mo3bius says:

2nd Feb 2015 at 6:40 pm

Does this mean, that Raspbian is now unnecessary? Should I install <https://wiki.debian.org/ArmHardFloatPort>?

I am just confused here, because raspbian is a port of debian to arm6 and will not be able to use arm7 features, but is still recommended ?!



Jens says:

2nd Feb 2015 at 6:40 pm

Arghhh, one week ago I ordered and got two now old B+ raspberries for me and my son ... Nevertheless I'm happy that you push out new boards with improved performance



Oliver Warner says:

2nd Feb 2015 at 6:46 pm

How could you partner with Microsoft? You've let us all down. The whole point of the Raspberry Pi was to teach kids to code. Now they get Windows. Yay! Let's teach them C#, which lets face it is the worst language in the world. How are we supposed to teach are kids about code and open source on a closed source operating system for people who don't care how computers work? I am really surprised at this and won't be buying another Raspberry Pi because of this.



Rrrr says:

2nd Feb 2015 at 6:53 pm

Hey, it is a nice piece of news but now that you have fulfill all our expectancy about the raspberry pi, is it possible to ask you to improve your communication strategy, it is insupportable to announce a product the day you sell it.
People who just by one of the ancient version just feel robbed.
If you have announced that two month before, we'll had the choice of waiting for the new pi or just buying one immediatly depending on our needs.
This new pi is nice but it is badly introduce.
Mayby you should propose an exchange for those who buy a pi last month
Again thanks a lot for all your work and please do something about your com.
Sorry for my poor english, i am a french raspberry pi enthousiast.



Dougie says:

2nd Feb 2015 at 8:34 pm

Announcing on the general availability day isn't such a bad thing, it certainly ensures the first batch of boards get bought on day one. As before with the B+ & A+ the secret was leaked (on the Register and SlashDot) some time before the official announcement. It was less bad with the PI2 than those two earlier announcements.

If you announce too soon in advance (before production of the new machine) you'd risk suffering from the "Osborne Effect". That's where the new machine's specification (even though it doesn't really exist) outstrips the old machine by so many shiny bells and whistles that you end up with so much held inventory of the old machine that you drive

It's common for folks who bought a full price machine to feel they've been outdone, but as my economics teacher told me "You pay your money and you take your chance.". If you don't do that you'll always be waiting for the new, better, cheaper machine.



Jeff Mercer says:

2nd Feb 2015 at 6:54 pm

Great news but of the four suppliers on the order page, one is unreachable, one is only able to ship in the UK and the other link is broken, pointing to a website in China that is effectively unreachable.

Allied Electronics has them in stock! But someone needs to tell them it's spelled 'RASBERRY' without a P for Bob's sake.



Nic says:

2nd Feb 2015 at 9:20 pm

You had better tell the Foundation how to spell 'rasberry' then too!



Phil says:

3rd Feb 2015 at 1:58 pm

And the dictionary.



AndrewS says:

3rd Feb 2015 at 3:15 pm

ITYM dicshunary



solar3000 says:

2nd Feb 2015 at 6:55 pm

what's there left to say? can't wait. cant wait to try microshaft 10 too.



KingTuna says:

2nd Feb 2015 at 6:55 pm

Are there any plans to get a second NIC on there? Seems like the hardware is now beefed up to be fast enough to run as a small firewall using Snort and would save on tons of electricity instead of a 1U rack server.



Eric says:

2nd Feb 2015 at 6:56 pm

Saw it in the newsfeeds this AM, you sure had kept it under wraps! Went to <http://canada.newark.com/>, they had 150 in stock so I ordered 2.

Checked a few minutes later, and they were sold out.

Can't wait to see how it performs with Linux. Also signed up for the Win10 program, just to see how it performs. What a geek toy, great work!



Rui Silva says:

2nd Feb 2015 at 6:57 pm

Bought my first PI a couple days ago... felling a little sad...



Benoit Lachance says:

2nd Feb 2015 at 7:00 pm

I am surprised to see the forum still down. is there an ETA for it to be back online?



Benoit Lachance says:

2nd Feb 2015 at 7:00 pm

I am surprised to see the forum is still down. is there an ETA for it to be back online?

A bit disappointing to have no forum most of the day, but maybe its just overloaded?



KTB says:

2nd Feb 2015 at 7:13 pm

I think they've just diverted traffic temporarily because the load was causing the forum to spit out SQL errors left and right.



MW says:

2nd Feb 2015 at 7:24 pm

Regards the Windows 10 comment, it is not a full blown version it will be more like a basic Tablet Version and Microsoft not the RPF are supporting as an IoT Platform

Regards the comment regards Adobe Flash, Adobe themselves do not support on ARM platform, so tough, ask the crappy websites to offer HTML5 Videos, not for Flash Support in ARM Linux.

Regards Raspbian it already had an ARMv7 port, it was "tweaked" for the RPi ARMv6, so no issues there. If used Debian ARMHF it would not have full support for the Camera and future Monitor add-ons via the board connectors etal.. Admittedly in time more Linux variants will be available

I will state again the only difference between the A+/B+ and RPi 2 B is the CPU/Memory.....



Iain says:

2nd Feb 2015 at 7:27 pm

Ordered mine this morning, cant wait.

I am a computing student in the UK and in my opinion the last thing we need is more Windoze in education.

Otherwise, frigging brilliant.



MW says:

2nd Feb 2015 at 7:35 pm

"Windows Developer Program for IoT"

This has b***** *** to do with Educational, and if people would actually read everything it is an M\$ initiative

<https://dev.windows.com/en-us/featured/raspberrypi2support>

You will not be running M\$ Office anytime soon !



mr floppy says:

3rd Feb 2015 at 4:43 am

There's going to be a lot that. People will not realise that it isn't a full desktop. There are probably many people who will go out and buy one, plug in their USB cd and wonder why their windows install isn't booting.

On the other hand, I think that many kids will end up with one unexpectedly, be faced with the option to purchase visual studio or a free alternative and be swayed towards the free



Robin says:

3rd Feb 2015 at 1:27 pm

There is the Visual Studio community edition, which unlike the express versions is complete & free (not for commercial usage).



Mereke says:

2nd Feb 2015 at 7:47 pm

I live in Siberia how can I purchase your product.

The only question is: Will it blend?



Eric Olson says:

2nd Feb 2015 at 7:51 pm

Having 4-core SMP available from my point of view is a major win over the single-core when using the Raspberry Pi to teach computing. When updating the Raspian distribution for the new board, it would be great to include a package of gcc 4.9 patched with the Intel/CilkPlus parallel extensions:

<https://www.cilkplus.org/build-gcc-cilkplus>

The CilkPlus programming language adds about 4 keywords to C/C++ and provides an amazingly simple way to start thinking about and programming parallel algorithms.



DatalsGold says:

2nd Feb 2015 at 7:52 pm

If the foundation could convince MS to release a version of Visual Studio that actually runs on the ARM platform that would be great for education.



DatalsGold says:

2nd Feb 2015 at 7:56 pm

I hope the foundation convinces MS to release a version of Visual Studio that will actually run on the Raspberry Pi 2.



sharifirad says:

2nd Feb 2015 at 8:11 pm

Congratulations on this fantastic news! :-)



Cameron R says:

2nd Feb 2015 at 8:11 pm

Any idea when the Element 14 site will be back online? Kind of hard to order one with the site down.



Bill Stephenson says:

2nd Feb 2015 at 8:12 pm

Awesome!!!!

You guys are just kicking some serious ass now!!!

Ordered 1 from Newark as soon as I saw the news, they were already sold out, but I expected that.

I'll be updating the "Raspberry Office Kit" today and releasing the new disk image as soon as I can.



Abraham says:

2nd Feb 2015 at 8:17 pm

Where can I buy one in US?



John-Paul says:

2nd Feb 2015 at 8:30 pm

Just curious, but why not call it Model C to prevent confusion with the Raspberry Pi vs. 1 B/B+? Especially since you have no immediate plans for an A/A+ and seem focused to release a new compute module as the next step.



Christian Nobel says:

2nd Feb 2015 at 8:35 pm

Pricing!!!

higher for the model 2 than the B+.

And it was the same story we saw when the A+ was introduced, it was claimed that it was 20% cheaper than the original model A, but the price at RS is exactly the same.

I do not have a problem with a better product having a higher price, but I would prefer some honesty, instead of claims that are not true.



matt says:

2nd Feb 2015 at 8:45 pm

What a vendor charges for it has nothing to do with what they buy it for, or the RECOMMENDED selling price.

I have mine ordered, in the USA, for the list price.



JBeale says:

2nd Feb 2015 at 9:00 pm

Here in the US, the approved vendor (MCM Electronics) is selling RPi-2 at the advertised \$35 price (plus tax and shipping). I remember in the past, in some countries there was some import tax that was added to the base price(?) But in any case that is something you should raise with your supplier.



G says:

2nd Feb 2015 at 9:15 pm

For some (unknown???) reason the price of the B+ has dropped rapidly in the last weeks. Please compare your Pi-2 price with a B+ of ~six weeks ago.



Christian Nobel says:

2nd Feb 2015 at 9:29 pm

I guess you are in the US?

The exchange rate for the american \$ have gone quite a lot up recently, therefore the Pi has been cheaper for you.

BUT the Pi is produced in the EU, and the price for the B+ has been the same since it was introduced.

So that has nothing to do with import taxes or anything – simply spoken RPi is not telling the truth when claiming the price should be the same.



Peter den Haan says:

2nd Feb 2015 at 10:09 pm

Where do you live? Here in the UK, the price of the B+ has plummeted from £25-ish to £20-ish recently. Now we know why.



Christian Nobel says:

3rd Feb 2015 at 9:52 am

Assaid, in Denmark – but it seems that the problem is the same in Germany.

The price in Denmark has not changed in ages, apart from the B+ has been slightly reduced (from 194,24 DKK to 190,00 DKK) the last few days.

But I can also see that RS has another pricing structure in UK than in Denmark, so eg. the price for the A+ is approx 20% lower than the A, where there is no price difference in Denmark.

So it appears that the problem more lies at RS (and Farnell) in Denmark, but it offends me hearing RPi making claims which apparently only are valid in the UK.



Richard Sp. says:

2nd Feb 2015 at 8:41 pm

Well, it's not as simple as saying "freedom to choose is fine" here. We all remember Microsoft anti-competition history and it's a big company willing to spend big money to keep people away from alternatives to their products.

Other than this, good piece of hardware.



Pete B says:

2nd Feb 2015 at 8:47 pm

Microsoft Windows 10 ? Why, Pi Foundation, how dare you give us more options which are, wait for it, optional ?! I won't be buying another Pi just in case you offer me even more options and things to do with it. Bloody liberty.

smh

In related news, the Odroid C1 isn't a fair comparison. I should know, I've got one. It's sitting in a box waiting for the software to get up to scratch. I'm not holding my breath.



MrWebsky says:

2nd Feb 2015 at 8:48 pm

I wonder what will be the reaction of RasPI look-alike board supplier from Shenzhen (China). Their processor family includes octa-core chips in both symmetric and big.LITTLE configurations and they are not so restricted on price and existing user base. Also I'm waiting for direct comparison between BCM2836 and A20 used by RasPI and its look-alike.



Rudy Tanner says:

2nd Feb 2015 at 8:51 pm

Real-Time

I still look for some real real-time capability.

Until now, it was not possible to use fast ADC properly as the time interval was varying. Wonder if this one could do the job.



Patrick P says:

2nd Feb 2015 at 8:59 pm

Guys, your great.

Saw the news for the new Pi Model 2 with great Hardware specs today.

The Pi is now nearly perfect for home nerds like me and even business solutions.

There is only one option I'm still missing and when you ask me, it should be possible with no doubt: PoE capabilities

I know there several gadgets on the net, but a on board solution would be perfect

regards

Patrick



ulix says:

2nd Feb 2015 at 9:07 pm

I'm really sad! The Display was before the Raspberry Pi 2 in the pipeline. Now we have a new Raspberry Pi, but no display to it. Can it get better? Yes, with this rubbish win10 stuff...



Manuel says:

2nd Feb 2015 at 9:13 pm

Still Ethernet 100/10?

It should have a gigabit ethernet, moving big files from/to the raspberry through the net is awful.

Why have not you added a gigabit?



Peter den Haan says:

2nd Feb 2015 at 10:19 pm

The most important reason probably is that it would have broken backwards compatibility. For a gigabit network to be useful, you'd have to take it off the USB2 bus and integrate it into the SoC — or, alternatively, upgrade to USB3 (we can dream!) — likely

I'm willing to bet that for most of us networking on the new Pi is faster anyway, seeing how a great many tasks used to be primarily CPU-bound.



Tzarls says:

2nd Feb 2015 at 9:20 pm

I can't really understand how could anyone feel disappointed with these kind of news... We've been getting better hardware for the same price for 3 or 4 years now. It's like buying the same cookies over and over only to find they're getting tastier over time!

Of course I can understand the "and I had just ordered a batch of the old model!" feeling – in fact I ordered 1 B+ and a couple of A+ a few days ago, but hey, I'll be getting exactly what I paid for! So keep up the good work (and move manufacturing to Perú so I can get new models without having to pay high shipping rates and wait for weeks for delivery! :D)



Ahmet Sipahi says:

2nd Feb 2015 at 9:30 pm

Hi! I want to buy Raspberry 2. I live in Turkey. Is the price \$ 35, but the shipping fee? Can you help please.



SeanE says:

2nd Feb 2015 at 9:33 pm

I've ordered 10 of them and plan to run nothing but Windows 10 IoT on them all, just to spite all the daft commenters here.



Ben Nuttall says:

4th Feb 2015 at 1:57 am

Sounds fun.



Scot says:

2nd Feb 2015 at 9:35 pm

I just spent ten minutes doing my best flounder impression to my monitor. That just happened!? I suppose it was only a matter of time since we got wheels and a sandwich, but... wow. You've really out done yourselves this time!

```
#include
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
If (true)//if mind == blown
```

```
{
```

```
cout << "Pi 2 has landed!" << endl;
```

```
}
```

```
return 0;
```

```
}
```



david says:

2nd Feb 2015 at 9:41 pm

Will the raspberry pi b+ be able to run windows 10



Ben Nuttall says:

4th Feb 2015 at 1:56 am

No. Windows 10 IoT will only run on Pi 2 as it depends on ARM v7 architecture. The original Pi Model A, B and B+ were ARM v6.



Jonathan Collings says:

2nd Feb 2015 at 9:45 pm

Can this finally be the MythTV front-end I have been waiting for... Thoughts???

Are there any details about the connection between LAN chip and SoC?
Does Pi-2 have the same Performance as with Pi-1 or is it better?



Peter den Haan says:

2nd Feb 2015 at 10:22 pm

From the article:

Fortunately for us, Broadcom were willing to step up with a new SoC, BCM2836. This retains all the features of BCM2835, but replaces the single 700MHz ARM11 with a 900MHz quad-core ARM Cortex-A7 complex: everything else remains the same...

Therefore, SoC USB support is still USB2, and the hub/ethernet chip is still fed off that. Any improvement (and there will be some) will be simply due to raw CPU speed.



Mark says:

2nd Feb 2015 at 9:57 pm

According to RS the Pi 2 needs NOOBS v1.4 (which they sell on an SD card) and V1.3 won't work. The blog only refers vaguely to needing an "updated" version of NOOBS.

The only version available for download is V1.3.12 which, oddly, is dated today.

Can anyone clarify which is the correct version to use?



Dougie says:

2nd Feb 2015 at 10:32 pm

It's clear that v1_3_12 has been made available to coincide with the Pi2 as it includes the 3.18.5-v7 kernel. So you can stop worrying.

I was lucky the download pages stayed up for long enough for me to get a copy.



Ben Nuttall says:

4th Feb 2015 at 1:55 am

The version of NOOBS currently on our downloads page will work with Pi 2. There'll be a minor updated version (v1.4.0) due out in the next week which should contain all the software from the previous Pi 1 image, all configured to work on the new hardware. The current 1.3 version contains the updated kernel for ARM v7 and most software has been ported – there are just a few extras to deal with.



John Miller says:

2nd Feb 2015 at 10:09 pm

Does the Pi 2 have the same form factor as the B+? So, will cases built for the B+ work exactly the same for the Pi 2?



Neil says:

2nd Feb 2015 at 10:23 pm

Just ordered one from RS. They say NOOBS 1.4 is required and 1.3 is not compatible but they have sold out of 1.4 cards and linked to the Raspberry Pi downloads page but this page only has 1.3 (dated today). So, what do I use with it when it arrives later this week?



Dave says:

2nd Feb 2015 at 10:39 pm

I want to see someone connect 4 x USB HDD to that and run a btrfs based NAS...



Peter Alexander says:

2nd Feb 2015 at 10:43 pm

Isthere a version with HDMI 2.0? I'm looking at apps for Ultra-HD at 60 frames per second, which needs it.

Thanks



Corey says:

2nd Feb 2015 at 10:49 pm

Glad to hear about a newer, souped up model.

Only thing is, well, I just ordered my first Pi last week. I researched specifically to make sure I was getting the latest version.

This is still on your FAQ's page:

7. WHEN WILL THE NEXT MODEL OF THE RASPBERRY PI BE RELEASED?

As of the July of 2014, an updated version of the Model B, the Model B+, has been released. Beyond this revision, which updated certain pieces of hardware without changing the main processor on the board, there are no immediate plans for the next model; a new model may be released in 2-3 years, but this is not a firm schedule.

So I'll admit, I'm a bit of a sad panda right now for arguably selfish reasons. :(May want to give the FAQ a sprucing up.



Nels E Godfredson says:

2nd Feb 2015 at 10:50 pm

I have the article from last annual from Pi and you said there was going to be any new hardware upgrades, only the 4 usb ports added.... why the change? I would really like to have seen a Business version with 2 NIC's.



Stewart Watkiss says:

3rd Feb 2015 at 10:29 am

il,

The foundation has said before that they had not plans to release a new version, but I believe that was due the need to maintain backward compatibility and that there was nothing else that could be used and maintain compatibility.

From the blog post it says:

"Broadcom were willing to step up with a new SoC, BCM2836."

So it seems that Broadcom have provided the means to maintain compatibility without increasing price and providing a new better, faster Raspberry Pi. So it seems perfectly logical to make the change rather than continue to supply the old spec just because they had previously said (in good faith) that they didn't have any plans for a new version.

I don't believe that the Raspberry Pi foundation would ever deliberately deceive anyone and I'm sure that's not the case here.



ulix says:

3rd Feb 2015 at 10:35 am

Here the same!

The Display was in the Pipeline before the V2. It was said that this will wait, now we have V2 and no display.

Why the rush to get V2 out? Why not change ethernet and some other things? And why before the display?

I'm wondering about the goal, is it yet the community and programming or changed it more to get quantities sold. If Microsoft is not involved in this, then it must be.

As well as now there is work on Win on the Raspberry, why that, is not the display more important?



ulix says:

3rd Feb 2015 at 10:52 am

I think this short announcement policy is not good, people support Raspberry Pi so they want to know

More about the development and happening in the HQ and on Raspberry Pi. Like it was when the first Pi was

Released. We don't know anything on the display, which was planned so long. Give people some insight to

Your development....

Could this be the \$35 MythTV front-end I have been waiting for.... thoughts???



rbn says:

2nd Feb 2015 at 10:57 pm

Gutted. I bought a B+ about 3 days ago :-(
Butr ordered one of these as well :-)



tzj says:

2nd Feb 2015 at 11:09 pm

Excellent news!

Now that the soc is exposed it helps justify water cooling kits for those HARDCORE users.

Which leads to another point, under supercooled conditions the 2835 could acheive around 1.4GHz??? But was restricted beyond that At the gpu level???

So my question is, what could be thoretically possable with the 2836 under supercooled conditions and will it also have a similar software restriction?



Tim Sander says:

2nd Feb 2015 at 11:22 pm

I would like to see the technical reference for the BCM2836?

Couldn't find it anywhere...

Is "FIQ" and or "Monitor Mode" available with this chip?



Robotica says:

2nd Feb 2015 at 11:32 pm

Thanks for bringing Windows 10.



Jon P Mercer says:

2nd Feb 2015 at 11:34 pm

Trying to source the Pi 2 in USA. No luck. Any suggestions??



HBE says:

2nd Feb 2015 at 11:52 pm

Looking forward to a better Mathematica experience on the Raspi. I guess gnuradio might also be practical now, at least simple applications.



DavilJoe193 says:

3rd Feb 2015 at 12:21 am

Yay, now I can finally run all the apps I used to run on my Windows CE netbook!!! Now if you excuse me, I'm going to to see how this thing runs Chromium OS. :)



Pelican says:

3rd Feb 2015 at 12:26 am

I've started with Raspi B.

The second was a Banana Pi, because the speed of the Raspi was not enough.

Now, I'm back I've just ordered a Raspi 2.

SATA and LAN still could b a problem but lets see how it performs...



David says:

3rd Feb 2015 at 12:28 am

I just have bought one on <https://es.rs-online.com/>!

Thank you Raspberry Pi foundation.



v says:

3rd Feb 2015 at 1:09 am

What about 64bit support, will we meet it in some future releases?



igreka says:

3rd Feb 2015 at 1:12 am

Does anybody know where to get the new Raspberry Pi 2 Model B in the US for \$35?



user879 says:

3rd Feb 2015 at 1:54 am

You probably will not find one under \$40 for a little while; what a few weeks or until the first rush is over, the price should come down some. When I bought my A+ I found amazon had the best price, but it isn't on amazon yet. Can't wait to get a pi2 myself!



designandhack says:

3rd Feb 2015 at 2:11 am

This is awesome! I'm hoping to buy a few for a couple of projects but they were already sold out through Element 14. I hope they get some in soon!



André Cass says:

3rd Feb 2015 at 2:42 am

I want him in Brazil



Lob0426 says:

3rd Feb 2015 at 2:47 am

Ordered a couple so my brother could have one. It will be interesting to test it against my Panda Board ES in performance with UBUNTU.

Nice job!



Mike Thompson says:

3rd Feb 2015 at 3:25 am

Hey guys, congratulations on a wonderful new device. I immediately put in an order for a few from Newark.

As the co-creator of Raspbian I very much welcome the quad-core ARMv7 as a good step forward for the Raspberry Pi. It's even better that you've worked on making sure that the 4 million devices in users hands aren't immediately obsolete from a software perspective. On our side we'll do whatever we can do to help transition Raspbian forward so users continue to have the best Linux distribution available for their devices – regardless if they purchased Pi two years ago or two years from now.

As for Windows 10, it's an interesting move on Microsoft's part. I have a feeling that all the fretting about it in the postings above will in the end prove to be needless worry when we see how underwhelming in the end result will be. It's obviously useful for embedded IoT devices in a Windows dominated corporate environment, but beyond that I think a competitive Linux based solution would have much greater flexibility. Despite the changes recently at the company, I'm very skeptical that Microsoft really understands the open source and Makers movement. I guess time will tell.



Bill Stephenson says:

3rd Feb 2015 at 4:22 am

I'm happy to see another OS that will run on the Pi, but I'm not much interested in running Windows 10. I'm sure others will find uses for it, but I really love the work you've done with Raspbian and I'll keep working with it.

Thank you too Mike!

Great to see that Raspbian will still be the defacto OS

Anything else will just be an alternative for people who want something a little different.

Regards Windows 10, baloney, it is a NT Kernel Development Platform not son of windows RT !



fuzzy says:

3rd Feb 2015 at 3:37 am

Are there any Japan distributors?

Element 14 and the other distributors you linked don't seem to ship internationally.



Steven Chesser says:

3rd Feb 2015 at 3:57 am

Soglad to see this. Just got into using the Pi three weeks ago for first time and was hoping for a new board to come out soon and not 2017 like every where posted.

Having a quad core will now help me improve my projects final goal as I can now take advantage of fast multi-threading!

Great job guys and gals involved!



tx fun says:

3rd Feb 2015 at 4:05 am

Ohgreat, now we can deploy .Net Apps. Oh no , now i will never learn python



Matthew says:

3rd Feb 2015 at 4:50 am

Why was this a complete surprise? I was updating my Raspberry Pi, scouring the Net for news, etc. just a few weeks ago, then decided to buy an Intel NUC so I could have a bit more power (mostly more RAM!). I'm mostly interested in the quiet/efficient/low-cost PC aspect. It would have been nice to know this was coming. My research (early January 2015) concluded that there would be NO hardware upgraded PI before 2016 or so.



Akshay Zade says:

3rd Feb 2015 at 4:51 am

Inearlier models, USB, Ethernet and other things were on the same bus to CPU (or something like that) limiting the throughput. As a result, USB 2.0 couldn't operate at full speeds and I/O had speed limit. Is this situation any different here?



Alexander says:

3rd Feb 2015 at 5:10 am

How come you decided to break naming convention and call this the Raspberry Pi 2 rather than the Model C?



Taxy says:

3rd Feb 2015 at 1:11 pm

...well for one thing all previous Pi's had the same SoC, the new Pi 2 is different.
Taxy



Ben Nuttall says:

4th Feb 2015 at 1:35 am

"Model B" is the \$35 level board – and we added a B+ for the additions

"Model A" is the \$25 level board – and we added an A+ (and reduced the cost to \$20) for the additions

Raspberry Pi 2 contains a whole new chip – it's a second generation Raspberry Pi, a much more significant difference. The difference between A and B is USB ports, ethernet and RAM. The difference between 1 and 2 is 4x cores, 2x RAM and over 6x speed and

The naming convention is not broken – it continues with a numerical prefix :)



Cyclotol says:

3rd Feb 2015 at 5:16 am

Imho Videocore IV is really showing it's age now, it was impossible to have desktop OpenGL 4.x support on the original Pi and the issue has been dragged along here as well. You guys seriously could have considered a SoC that packs a modern GPU that at least supports OpenGL ES3.1 (GL4.3+ would be even better), It's a real pain to have to dumb down our 3D applications to that restricted and castrated legacy ES2.0 API when all the major players out there are readying adopting ES3.0+. Videocore IV on Windows doesn't even support shader model 3.0/feature level 9_3 which is the absolute minimum API revision that most developers out there support. This is a terrible choice imho, you could easily have licensed the Mali IP from ARM and build your own 'modern' SoC without all that legacy Videocore stuff. It's simply ludicrous to ship a product that features a GPU which doesn't support SM5.0/FL11_0.



Texy says:

3rd Feb 2015 at 2:23 pm

I guess 4.5 million sales so far proves that having the latest and greatest is not top of the pile for the vast majority of users or for educational purposes. I'm sure there is other hardware out there that will fit your purpose, perhaps for just a little more money.....
Texy



levelKro says:

3rd Feb 2015 at 5:22 am

Buy one when is available on buyapi.ca.

The Model B+ offer great new feature, I have planned to buy one, but the rPi 2 is much better for same price.



Sandesh Damkondwar says:

3rd Feb 2015 at 5:47 am

I'm damn interested to get hands on.



Envira Phani says:

3rd Feb 2015 at 6:13 am

Great work guys, love to see windows and ubuntu ported to Pi.
Glad to me a member of Pi family.



SoRoom says:

3rd Feb 2015 at 6:19 am

Very nice ;)
It make me very happy. I will buy 2-3 for testing.
And Ubuntu run good?



Ben Nuttall says:

4th Feb 2015 at 1:30 am

Ubuntu are providing their Snappy Core image, which runs well on Pi 2. It's not a desktop image for general use – it's a special server image for developers.

Having said that, there's bound to be a suitable standard Ubuntu image that'll also run on Pi 2 floating around somewhere. It won't be as fly as Raspbian as we've done so much work optimising it for the hardware and Ubuntu desktop (particularly the Unity interface) is made for computers with more processing power and RAM. Perhaps a Lubuntu or Xubuntu image will work better.



VLD says:

3rd Feb 2015 at 6:32 am

Why the hack windows?

Too bad the Pi2 doesn't support either USB3 or eSATA... either of these (but specially USB3) would be just the ticket for what I want to do with it, ie, personal NAS.

More RAM and CPU is always nice, but the current Pi offers more than enough, so I think I'm gonna pass on the Pi2.

Let's see whether the Pi3 offers anything in this regard.

Also, it's disappointing to see Raspberry in league with Microsoft: this not only casts a shadow on Raspberry's "open" (source/hardware) attitude, as MS and Windows is anything but, but also shows a kind of naivete that really worrying (not a single company in history has ever benefited from having anything to do with MS and Windows, much to the contrary: the "partnership" eventually destroys them, if not entirely at least in spirit. Just look at Nokia and Novell, to mention only two...



MW says:

3rd Feb 2015 at 7:20 am

Everyone feels that the RPF are in league with MS not so, MS want to use the RPi as a development platform for Internet of Things and obviously that does not mean you will be installing a full version of Windows 10.

The crucial word is development and if the people who splash "install Windows 10 on RPi" on Blogs would get their facts straight stupid comments would not be posted.

The same applies to Ubuntu, Snappy is an Internet of Things Development platform.

So yes if we teach kids to code on RPi giving them opportunities to find a career path which is relevant to what they have learnt is good.

You will find loads of information on the NET, but not everything is the full picture.....

Raspbian Operating System is still the backbone of the RPi, anything else is an alternative so if do not like the alternative djust ignore it.



Mistofoles says:

3rd Feb 2015 at 8:46 am

Raspbian or Minibian ?

In IoT (Internet-of Things) you need a lot of boxes without screen, keyboard and GUI. A small LCD is many times more than enough.

Still you need a lot special IO. I'm using now Arduino here, but it would be great to get rid of the USB cable. The same goes with HD.



Mistofoles says:

3rd Feb 2015 at 8:24 am

MS might get more resources to Raspberry, even though I stay with (minibian)Linux.

There is some aspects in all Raspberry Linux distributions, which should be fixed (IMHO).

They might be fixed with our (users) help.

I'm waiting for RPi3, but going to buy some RPi2 in immediate need.



Karthik Swamiappan says:

3rd Feb 2015 at 6:41 am

I have a basic doubt.. Can this Raspberry Pi 2 platform detect any USB device like how a normal PC does? To be more specific, I am looking to install Garmin Express and sync my Garmin Edge 500 through USB such that I can track and Save my workouts...



James Sylvester says:

3rd Feb 2015 at 7:10 am

Did not read all comments so not sure if asked/answered, but is this available in Australia yet, or is there a seller who will export to Australia.

Not worried about power supply differences, just want a collectible.



Faizan says:

3rd Feb 2015 at 7:40 am



Dmitry says:

3rd Feb 2015 at 7:43 am

and on the Raspberry Pi 2 will run MetaTrader 4?



HD says:

3rd Feb 2015 at 7:43 am

Nice Job and its going viral.
Let's see whether the Pi3 offers anything in this regard.
Thanks for the amazing tech tool.



Radu says:

3rd Feb 2015 at 7:46 am

How about Android TV? Would make a killer smart-tv accessory.



Ben Nuttall says:

4th Feb 2015 at 1:21 am

Hopefully we'll see some work on Android this year. We'd love to see the Raspberry Pi (probably in the form of a custom board using the **compute module**) used in a commercial product like a smart TV.



Marty says:

3rd Feb 2015 at 8:03 am

Thanks, good News. I ordered one :)



Matt Smith says:

3rd Feb 2015 at 8:09 am

Hi, silly question but if do a
'sudo apt-get update' and 'sudo apt-get upgrade'
will my b+ card slip straight into my 2 b+ (which is delivered today hopefully)
Cheers
Matt



Iain says:

3rd Feb 2015 at 9:04 am

Good question, I'd imagine not.
PS. You were one of my favorite Doctors, don't listen to those Tennant fanboys. I'd bet that was an original joke for you!



Matt Smith says:

3rd Feb 2015 at 9:56 am

Personally I never watched Doctor Who although I am enjoying Broadchurch.



MW says:

3rd Feb 2015 at 9:17 am

Yes definitely
sudo apt-get update
sudo apt-get dist-upgrade



Ben Nuttall says:

4th Feb 2015 at 1:18 am

Almost!
Just add the command **sudo apt-get dist-upgrade** and that should do the trick.

Thats all fine and great, but as far as I can see, raspberry Pi 2 doesnt address the single biggest problem of the original raspberry pi.

The lack of gigabit ethernet card.



Ben Nuttall says:

4th Feb 2015 at 1:17 am

Not necessary for use in education – and would risk breaking backwards compatability and likely make the creation of the new chip take much longer, therefore not a priority or a good idea at this stage.

The new chip (2836) is exactly the same as the previous chip (2835) except for the CPU which has been replaced with a quad core 900MHz ARM7.



Mistofeles says:

3rd Feb 2015 at 8:16 am

Great to see it evolve !

Next logical steps:

- SATA or mSATA connector !!
- RTC !!
- Mic connector
- Arduino type programmable GPIO

When you add (m)SATA, please do not make it like in Banana Pi, where it sticks from the side of the board. Make it so that the HD and the board can be stacked

These boards are largely used in laboratory and security without keyboard nor screen.

Here RTC, MIC and programmable GPIO were needed.

GPIO could be a separated stackable card.



Christian Nobel says:

3rd Feb 2015 at 10:37 am

Other logical steps:

- Power off functionality
- Reset button
- On-board flash memory
- USB client port, so terminal can be used through USB
- USB backpowering
- LiPo connection
- VGA

A slighly larger PCB, where the corners look like this:



(It is difficult to draw here, but I hope you get the point) so the board can be installed in standard boxes where the screws for the lid are in the corners.

But get me right, the RPi is a great little computer, so the above are only "nice-to-haves" in case you at looking for inspiration.



Christian Nobel says:

3rd Feb 2015 at 10:48 am

Ok, drawing didn't work, try again:



Good job !!!



Frank Riegel says:

3rd Feb 2015 at 8:49 am

Whoopee! Congratulations guys, great news, Just saw your ad on Facebook and shared it on my wall.

Does it need new codecs licenses to be purchased?



Ben Nuttall says:

4th Feb 2015 at 1:15 am

Yes as each codec licence is tied to the hardware of the Pi.



SzestKam says:

3rd Feb 2015 at 8:56 am

yes, yes, yes!!!
This VERY good news for me!!!



SamFox says:

3rd Feb 2015 at 9:08 am

Why shouldn't it be possible? There must be a way to upgrade an existing b+ image to a ARMv7 kernel and modules.



Ahmed Nasheed says:

3rd Feb 2015 at 9:08 am

can't find worldwide delivery.. specifically to Maldives. through some googling found one site that sells to maldives but it's over priced. RS used to ship to Maldives when i bought PI 1 B, but now they don't. i'm really itching to have one right now. To give my self a treat on my b'day :P but seems i'll have to wait for sometime to get it here for a reasonable price.



horace says:

3rd Feb 2015 at 9:20 am

won't this run much hotter than the old one? if all cores get used at the same time for a while? is a heatsink recommended?



Ben Nuttall says:

4th Feb 2015 at 1:08 am

Idle, the Pi 2 will not run hotter.

If you spin up all 4 cores and put it through its paces, it will get hot. But not dangerously hot.

Heatsink not recommended for general use but it's up to you if you think you'll need one.



Nick Corston says:

3rd Feb 2015 at 9:33 am

Great news – good luck with this.

Investment opportunity. Anyone want to buy a class room size box of 30 model B's, for the price of early adoption ;-)

<http://www.ssclodeclub.org.uk>



SamFox says:

3rd Feb 2015 at 9:34 am

Following commands should do the upgrade

- apt-get update
- apt-get upgrade



Don Bronson says:

3rd Feb 2015 at 9:44 am

This story looks like the foundation improved RPi's specs so that microsoft could take their software into the platform and now that they are ready, they make this announcement together.

I wouldn't mind microsoft doing this on their own, but I think the cooperation and promotion from the foundation is a step back.

I hope I'm wrong!



Ben Nuttall says:

3rd Feb 2015 at 9:47 am

> I hope I'm wrong!

Good news: you are!

We always intended to do a next generation model. Obviously MS had nothing to do with that – it was down to Raspberry Pi and Broadcom's engineers. Not until we had functional boards out did MS get involved and offered to work on porting Windows IoT for it.



Neil says:

3rd Feb 2015 at 10:16 am

Same 'ol Ethernet is a bummer, I agree. And I don't immediately see how you could get a better one with a HAT – the I/O isn't really designed for that. But at least it has Ethernet. Phew. So, off to Element14 I go. Right now :-)



Muhammad Saad Khan says:

3rd Feb 2015 at 10:16 am

That's a great news Eben – Kudos to raspberry pi team & engineers. I am ordering now and expecting it to run extremely well on Ubuntu & Linux.

Microsoft Windows 10 top up is just ahhhazing.



Evilus says:

3rd Feb 2015 at 10:20 am

Is Raspbian for ARMv6 (Raspberry Pi 1-st generation) going to be discontinued some time later? I ask because I bought Raspberry Pi B half year ago for home server and I want to know if I don't wasted my money.



Ben Nuttall says:

4th Feb 2015 at 1:00 am

Not at all. Raspbian will continue to be the recommended and supported OS for general purpose in order to maintain backwards compatability with Pi 1 and to make the most of the huge effort to make it the best performance we can get out of the Pi.

The introduction of Windows 10 IoT and Ubuntu Snappy Core are additional optional choices limited to Pi 2 only – and they both have specific use cases in development. For general use and in education, we recommend Raspbian – and we're not going to drop ARM v6 support as we have 4.5 million 1st generation Pis out there to support.



Serbia says:

3rd Feb 2015 at 10:31 am

Where can we buy this in Serbia? And can we increase the RAM?



Ben Nuttall says:

4th Feb 2015 at 12:56 am

The RAM is soldered to the board. You can't increase it.

We've been working hard to make applications on the Pi such as the web browser, Scratch and so on run really well with less RAM – the Model A+ only has 256MB RAM and you can browse the web with it.

 says:

3rd Feb 2015 at 10:33 am

mSata? Oh come on. That is so last year. **M.2** is the currently favoured way of adding a future solid state drive.

More seriously, I bet there are loads of people who will ditch their Pi 1 and replace it with a Pi 2 and would quite happily send their Pi 1 to a freepost address. These could then be redistributed to more worthy causes rather than end in cupboards or be discarded. Alternatively they could be tested and sold much cheaper as refurbished with the profits going to the Pi Foundation to be spent wisely.

Is there not a case of providing a suitable envelope with every Pi 2 purchase for those who want to see their Pi 1 reused? I realise that the complete setup would take some organising and could not be undertaken lightly but the benefits could be substantial.



Dave Walker says:

3rd Feb 2015 at 12:41 pm

+1Great idea!



exartemarte says:

3rd Feb 2015 at 2:35 pm

Sound idea. I would be happy to donate older/surplus pis for use in education.



kretzer says:

3rd Feb 2015 at 4:37 pm

Good idea!

A lot of cool projects run with pi 1's, and if they were good enough last week they should still be so next week.



Keith says:

3rd Feb 2015 at 5:37 pm

I was thinking the same thing. Maybe people could donate them at Raspberry Jams?



Ben Nuttall says:

4th Feb 2015 at 12:31 am

Good idea. Or schools!



Coke says:

3rd Feb 2015 at 10:43 am

The following commands should upgrade the kernel to use "old" raspberry rev 1 installations with the new raspberry 2

- apt-get update
- apt-get upgrade
- apt-get dist-upgrade



Philipp says:

3rd Feb 2015 at 10:58 am

I just installed my very first Raspberry Pi (B+) with OpenELEC and hooked it up to the TV.

No trouble. Not even one teeny tinsy bit of a problem. Such a great, great little machine. And I got the package with all the electrics tinkering stuff, so I'll be sure to get back to a hobby I haven't kept up with for almost a decade.

You guys have created an incredible, incredible thing! All my machines run Linux, why would my media center run something else?

Biggest respect for all involved. You're heroes in my book.

I am really excited about the new Raspi2, he is really 4 times faster than my old one. If i start browsing 25% CPU, the old goes up to 100%.

Greetings Bernhard



Ralph Lampenscherf says:

3rd Feb 2015 at 12:28 pm

Launching the Raspberry Pi 2 B+ is great news. A real step ahead !!!



Martijn says:

3rd Feb 2015 at 12:32 pm

Question: Does this new RPi2 support WOL (Wakeup On Lan)??



MW says:

3rd Feb 2015 at 1:49 pm

There are no changes, except the VideoCore GPU now has a ARMv7 attached. It still has no WoL on the 9514....



ME says:

3rd Feb 2015 at 12:42 pm

Weare British we dont use the dollar \$

Pounds we use here in the UK.

Please change this and stick up for our NATION!

Have you sold out the Americans?

Why because Micro\$oft told you to do this?

Sell out just like UK government with ARM in 90's



Michael Horne says:

3rd Feb 2015 at 12:52 pm

Ashas been repeatedly stated, in so many places I've lost count... The reason Dollars are used is because the raw materials are ordered in Dollars. With currency fluctuations, to use Sterling would be impractical as the price goes up and down.

I would've thought that bringing production to the UK would've been evidence enough that the Foundation truly supports the UK economy. The Pi was born in the UK, is made in the UK and is supported from the UK.



Ben Nuttall says:

3rd Feb 2015 at 3:44 pm

We've always priced in dollars since the beginning. As per our [FAQs](#):

The components we buy are priced in dollars, and we negotiate manufacturing in dollars. Because currency markets are so volatile, we price the final board in dollars too so we don't have to keep changing the price.



cpslashm says:

3rd Feb 2015 at 1:01 pm

Should have announced this on April 1st. No-one would have believed it, which would have been amusing.



KTB says:

3rd Feb 2015 at 1:14 pm

"Nonetheless, there comes a point when there's no substitute for more memory and CPU performance." – Eben Upton

An internal server error occurred. Please try again later.

Looks like our web server needed more memory and CPU performance.



Tuxedoar says:

3rd Feb 2015 at 1:33 pm

Hi,

Exciting news!. Congrats and thank you very much for your commitment and continuous hard work!. Keep up with that!.

Now, is it me or you have been particularly silent about the fact that the raspberry pi 2 was coming ?. It's something it catches my attention. If you agree with me on this, was there any particular reason to be silent about this?. No criticism intended, just wondering! :) .

Thanks!.
Cheers!.



James Hughes says:

3rd Feb 2015 at 1:41 pm

Because the existing stocks of B+ needed to be shifted, or a lot of landfill would be used up. Look up 'Osbourne effect'



Don Porter says:

3rd Feb 2015 at 1:43 pm

Thrilled to see **RS in Bangkok has them!** I ordered one today (thanks to Chrome's Thai-English translator – RS site is largely in Thai). Free shipping! It has been a Pi-exciting couple of days!



Lex says:

3rd Feb 2015 at 2:11 pm

I hate Windows and MS is known to be really evil, so why do you support them?

BTW: I know the UK like censoring, but you guys are even worse.



James Hughes says:

3rd Feb 2015 at 2:41 pm

Though about binning this post as its basically a waste of bandwidth, but thought everyone else might like a glimpse of the sort of thing that's been arriving.

To the OP – MS are doing the port, with some very minor help from the Foundation. So I suppose that is 'support', but its not affecting the core business of getting Raspi's and education out to the world at large.



Parn says:

3rd Feb 2015 at 2:14 pm

Wow!

The only shortfall of the B+ was its somewhat lacklust performance compared to some other CC size devices (OK they were more expensive also).

Now the new PI 2 is going to further strengthen RasPI the position in the market with a ARMv7 1GB spec at the same price as the B+.



jsvfoto says:

3rd Feb 2015 at 2:18 pm

It's impossible to find in North America. Element14 is sold out and I keep getting server errors/request denials when I try to set up a notification for when it's in stock again.

I'm patient and in no hurry to upgrade my 1st Gen Pi, but I can't wait to get my hands on the PI2. It seems like a vast improvement in terms of processing, and kudos for keeping the price point the same. That will only increase the popularity of this wonder board.

have you tried adafruit or microcenter? microcenter will almost certainly have them soon OTC and i expect adafruit if not already got them will have them soon



Johan Adler says:

3rd Feb 2015 at 2:40 pm

Nice, but I would still have liked to have a normal and dedicated power jack. It does not have to be anything huge, the ubiquitous 2.1 mm center positive DC jack would IMHO be a huge improvement, even it would only accept 5V DC.

(Having an internal DC-DC converter capable of using e.g. 6V to 15V DC would be even more convenient. Even more versatile would be a boost/buck converter accepting something like 1.2V to 28V, but the need for that capability is probably too small to justify its implementation.)

I would love to be able to power my Pi's from regular wall warts. When it comes to stuff I use Arduino or other microcontrollers for, I find it useful to have access to both the higher voltage, say +12V DC from a wall wart, and the regulated +5V and +3.3V, to use with different peripherals.

Just my thoughts...



James Hughes says:

3rd Feb 2015 at 2:59 pm

In Europe, regular wallwarts are exactly what are used to power Pi's, uUSB is mandated for all mobiles now I believe so there are a lot of them about. I also use a uUSB cable attached to my laptop to power a Pi – not an option with barrel. Barrel connectors are too numerous in type to use – people might think it's the right polarity and voltage just because it's the right size. Bang.

Internal converter for a voltage range would add too much to the cost.



JBeale says:

3rd Feb 2015 at 3:20 pm

> "the ubiquitous 2.1 mm center positive DC jack would IMHO be a huge improvement, even it would only accept 5V DC."

Unworkable in a consumer product unless it really accepts all voltages that plug delivers (24 V?)



canuck says:

3rd Feb 2015 at 2:44 pm

WOOOO! This is incredible news! But seriously, you got the name wrong, it should be the Pi^2.

I got the Rev1 Model B at home, so of course I got one as soon as I can! I even went out and got a better case for my old Pi (Pimoroni doesn't support it anymore, sigh) so no fears of the old one being trashed anytime soon :)

I can just imagine the possibilities with the beefier Pi in the classroom. Right off the bat, using the Pi^2 as a server with content, while the 'old' ones are still used as thin terminals. I think there was a Khan Academy setup like that.

And the fact that it is still \$35 for a quad core machine? You guys are freakin' wizards!

As for Microsoft working in the Pi^2, bring it on! Don't see how it directly helps the education aspect of the foundation, but then again neither does OpenElec.

Just one request guys: please don't release a Pi^3 in the next year or so. My wallet won't be thanking me ;)



Ben Nuttall says:

4th Feb 2015 at 12:44 am

> But seriously, you got the name wrong, it should be the Pi^2.

But $1^2 = 1$.

$1^2 = 2$.

Noticed some oddness with Minecraft and the Python API, compared to the model B.

Minecraft seems to still be receiving commands from the API after the Python code has terminated.

As an example, I have code that renders a CSV file into Minecraft blocks. Previously the code would terminate once all the blocks had been rendered, but now the drawing continues quite some time after the code exits.

The functionality isn't affected, it's just a bit disconcerting, perhaps there's some thread oddness now that there are multi cores.

The speed improvement is very welcome, coffee intake will be dropping now that the rendering is significantly faster.

Joe



Simon Tan says:

3rd Feb 2015 at 3:17 pm

Awesome response to the competitors. Keep up the good work. What will the competition do next? Competition is great!



Luís Pires says:

3rd Feb 2015 at 3:23 pm

I'm using my Pi 1 Model B as a webserver, I'm also using a SanDisk 32GB SDHC Extreme Pro card.

The websites have mainly graphics (architects and photographers) and I would like to speed them up using a Raspberry Pi 2.

Will a Raspberry Pi 2 boot with the Pi 1's Model B Raspbian image?

Luís



Drentsoft says:

3rd Feb 2015 at 4:05 pm

Have asked exactly the same question at exactly the same time. Still no answer though :(



Ben Nuttall says:

4th Feb 2015 at 12:43 am

No, but you can update it to continue running with the same file and system install.



Drentsoft says:

3rd Feb 2015 at 3:23 pm

I have a Model B that I'm using as a dev server that I want to replace with a B V2. I was wondering if I need to reinstall everything or can I just do a dist-upgrade, copy the SD card to a microSD card and boot straight from that? (The OS is installed on an external hard drive).

Thanks.



Andy says:

3rd Feb 2015 at 3:34 pm

...Now, if I can get Eclipse on it, recompile the AVR plugin, get Cadsoft to port Eagle to it, I've got my total development environment in my pocket!
YAAAAAY!!!



James Hughes says:

3rd Feb 2015 at 3:36 pm

Will you please stop lying. The price of the B2 is the SAME AS THE B+. This is a FACT. It is \$35. Look on RS or Farnel or any other main line supplier for the proof. I have no idea why you think this is not the case, but you are WRONG. It is \$35.

We do not play by the rules of the American's, we play by the rules of the world. The entire worldwide trade in silicon is in Dollars. So that is the best (and only) way to have consistent pricing. It really is that simple.

the world.

As for UK identity, I'm pretty sure the Pi is UK through and through. That's enough identity for me.



Benoit Lachance says:

3rd Feb 2015 at 3:41 pm

Forum is still down...

date

Tue Feb 3 10:40:44 EST 2015

date -u

Tue Feb 3 15:40:48 GMT 2015



Albert H says:

3rd Feb 2015 at 4:07 pm

Have the USB core issues been fixed? I remember there was some discussion on how the RPi1 had issues that were seriously problematic:

<http://hardware.slashdot.org/comments.pl?sid=3070945&cid=41120017>



Liz Upton says:

3rd Feb 2015 at 4:20 pm

Yes, about two years ago. (Slashdot comments are perhaps not your most reliable source of news.)



PeterF says:

3rd Feb 2015 at 4:08 pm

It was delivered late morning. Now booted.

*IT IS VERY SNAPPY,
AND I AM VERY HAPPY!*

Thanks again to the midnight oil burners.



Benoit Lachance says:

3rd Feb 2015 at 4:10 pm

Canadian customer:

on feb 02 10AM(EST)/3PM (GMT):

pre-ordered 2(Pi2 + noobs card bundle) from newark canada (part 38Y6469 \$46.52

CAD/bundle or \$37.50 USD)

(NEWARK shipping went from \$8 CAD flat to \$20 CAD flat)

Not expecting to get them prior to april....



Jesse V. says:

3rd Feb 2015 at 4:10 pm

I live in the United States, Is there a vendor in the UK that will ship me a few of the Pi 2 devices?



JBeale says:

3rd Feb 2015 at 4:31 pm

458 comments and not one inquiring about how the new silicon was tested. Given this is apparently the first deployment of the BCM2836 SoC, and the complexity scale of these systems it seems possible there might be something unexpected, but I guess that is a testament to the team that everyone assumes it all just works!



James Hughes says:

3rd Feb 2015 at 5:35 pm

It went through the same sort of testing as any Brcm chip – I think this has been covered elsewhere. First silicon was some months ago – its been fairly well tested since then.



JBeale says:

3rd Feb 2015 at 6:14 pm

Thanks for that, I saw "BCM2836 silicon bringup" on vimeo with the spinning teapot demo, but did not know how long ago that was. I gather '2836 is a combination of the established Cortex A7 and the balance being the well-understood BCM2835. Still the combined system seems substantially complex, so I imagine thorough testing is quite a task.



Christian Nobel says:

3rd Feb 2015 at 4:32 pm

Interesting, criticism is not allowed, and critical posts are being censored away.

You can claim from now on, and until judgement day, that the price is the same, which the entire computing press in the world have been swallowing raw, but the plain fact is, that in half the world this is not true.

Pitty that you do react like this.



Benoit Lachance says:

3rd Feb 2015 at 4:51 pm

I hope you are not trolling (dont feed the troll :-))

Well that is called USD fluctuation:

Re-pasting my initial post:

Canadian customer:

on feb 02 10AM(EST)/3PM (GMT):

pre-ordered 2(Pi2 + noobs card bundle) from newark canada (part 38Y6469 \$46.52

CAD/bundle or \$37.50 USD)

(NEWARK shipping went from \$8 CAD flat to \$20 CAD flat)

Not expecting to get them prior to april....



Liz Upton says:

3rd Feb 2015 at 4:58 pm

Christian, you've posted nine times on this, and we've let your posts stay up. But this is beginning to look like trolling, and that's something we don't tolerate here: could you please wind it in?



James Hughes says:

3rd Feb 2015 at 5:32 pm

Except your posts have been left up, and not censored (By me anyway)

I suspect if this \$35 fact was not true, then the worlds computing press would have noticed by now? As it is, only you seem to have noticed it, and not the 50k people who have bought one. So, who do you think is right here? 50k people and the worlds press, or you?

Of course, presenting some evidence of your claim would go some way to support your claim, but I haven't seen that yet.



Christian Nobel says:

3rd Feb 2015 at 6:06 pm

I tried to answer Liz, but apparently the answer was lost due to congestion, so I bring it again:

Hi Liz.

No I am not trolling, but as said, which I hope you understand, is that when you say that the price is not changed, the entire computer press globally brings the statement.

Unfortunately the simple fact is that in large parts of the world this does not happen to be fact, wherefore I would appreciate that you take this fact into considerations when you make press releases, and instead say that the price will not be drastically increased (give and take 20% depending on country) – and maybe the fault lies with RS not

And besides that, some of my post were only suggestions for improvement, but some were also trying to explain that there is difference in how the American price compared to the price that is faced by EU citizens (apparently excluding UK), and probably other places in the world (eg. RS in Australia takes 43,18AU\$ for the model2, but 38,00AU\$ for the B+).

—

And to answer you, as you can see from above, there are differences in prices, and as said, maybe RS is to blame, and with regards to the world press, they just says the the price is not changed, because the press release says that 35US\$ equals 35US\$.

Don't get me wrong, I do not see a problem in the fact that a better product actually is more expensive, but I acknowledge the fact that it gives a lot of frustration in the "non US\$ countries" when the users discovers that the price is increased.

And other European manufactures of electronic devices who also sources in the far East do not face any problem with fixed European pricing.



James Hughes says:

3rd Feb 2015 at 6:42 pm

I really don't know how many times it can be said. The price is \$35. On top of that you will need to convert to local currency, add tax and postage, to give you the final result. If that doesn't come out to about \$35 (given the vagaries of exchange rates, and noting that the price will be based on what the product cost the supplier to import at the time of import, rather than exchange rate at time of end user purchase), then you really need to look to a different supplier. But the recommended price, exclusive of tax and delivery, is \$35. This is NO different from the previous model, the exact same things applied to that as well. It was \$35, the 2B is \$35.

Also note, that right now, some resellers are DISCOUNTING the B+ to less than \$35 in order to shift them, since they are now less good value. So they are being sold for less than \$35, not the 2B being sold for more.



Rich says:

3rd Feb 2015 at 4:51 pm

Ordered from RS components, it was "in stock" at time of ordering, money taken, now being told it wont be available until after the 10th or possibly after 23rd. RS are useless, think I'll cancel the order!



Vision-Ary says:

3rd Feb 2015 at 4:54 pm

I was buying an Odroid then suddenly the light! :D

RaspberryPi2 <3 !



JeremyH says:

3rd Feb 2015 at 5:23 pm

Got mine this morning from PiHut.

I was please to see the VFP supports hardware double precision (64 bit) floating point – the documentation implied it was single precision only for an armv7 with neon.

A 16,000 line C compilation took 30 seconds on the Pi 2, 95 seconds on a B+. A larger build using "make -j 4" to use all the cores would benefit much more. Fantastic! Thanks!!!! And it feels snappy to use!

I thought the B+ was a truly inspired upgrade design. This is too. There are some clever people in the foundation.

Its got hardware integer divide as well – woohoo!



Alex says:

3rd Feb 2015 at 5:57 pm

10x performance on compilation using just one core? Really?

I saw very impressive speed improvements on compiling. I suspect more down to having lots of memory in this case. Some C++ compiles use a LOT of ram.



Ben Nuttall says:

4th Feb 2015 at 12:38 am

> I thought the B+ was a truly inspired upgrade design. This is too. There are some clever people in the foundation.

Yes! A lot of the work put in to the B+ board redesign was with Pi 2 in mind. James Adams did a fantastic job with it.



MW says:

3rd Feb 2015 at 5:29 pm

Well received mine today, whoopee..

After several attempts to download a new fresh image was good to go.

So far so good except Epiphany Browser still not polished (buggy) but at least IceWeasel is usable.

Youtube is better experience but would not call the Pi a Desktop replacement.

10/10 to the RPF, can it get any better ?????



Ben Nuttall says:

4th Feb 2015 at 12:37 am

> 10/10 to the RPF, can it get any better ?????

Well according to the statement in the previous line of your comment, it can!

With further software maturity, Pi 2 will become more like a desktop replacement. And who knows what the *next* generation will be like. But we do know one thing: it'll be *better*.



Matthew Scott says:

3rd Feb 2015 at 5:31 pm

Can this run windows 8 arm?



Ben Nuttall says:

4th Feb 2015 at 12:34 am

No, just Windows for IoT devices. No desktop version is planned.



David Kajaks says:

3rd Feb 2015 at 5:32 pm

Does anybody know how to get your hands on one of these in Canada?
Cheers!



Neil Haigh says:

3rd Feb 2015 at 5:32 pm

Saw the news yesterday, ordered one yesterday
NOW RS are saying that they are out of stock, it should be with me by now.
Never using RS again, not raspberry's fault!



James Hughes says:

3rd Feb 2015 at 5:49 pm

Sony are making 80k a week at the moment, so should be stock in soon at all resellers.
Or try Pimoroni or the PiHut who have them in stock.



Ben Nuttall says:

4th Feb 2015 at 12:34 am

be distributed as swiftly as possible.



John says:

3rd Feb 2015 at 5:37 pm

I hope Broadcom saw fit to change out the 16GHZ SDCard interface to one of the newer bigger SDHC 32Ghz or SDXC interfaces. These are ASIC cores that are transparent to the actual software and mostly the hardware except you can put more on board and they have better timing.



James Hughes says:

3rd Feb 2015 at 5:43 pm

Nochanges made to the USB or SD card I/F's AFAIK. Wasn't really the time.



Max says:

3rd Feb 2015 at 6:08 pm

I hope one day to be able to replace a Windows Active Directory domain controller with a Raspberry Pi 2, if that were possible... with so many people moving their computing to the cloud, in a Windows environment, basic user account authentication still works best of the AD is on the local network. A low-cost, low-power solution to this would be awesome!



bjuraga says:

3rd Feb 2015 at 6:11 pm

Any chance to get this in or near Macedonia?



Dougie says:

3rd Feb 2015 at 6:11 pm

You should be able to run `sudo apt-get update` & `sudo apt-get dist-upgrade` to get the new kernel installed on your existing SDCard in your existing RPi model 1B.

Get the new machine, clone the card and it should boot first go with nothing else needed.

All ARMv6 code will run on ARMv7 so it's upwards compatible, the SoC and USB/Ethernet hardware are plug compatible. The difference is that code that's explicitly compiled for the ARMv7 chip won't run on your old RPi. It is not downwards compatible.

Tomorrow I should be able to confirm that as I'm expecting delivery of my RPi2.



Brett Parker says:

3rd Feb 2015 at 6:18 pm

Itlooks like a vast improvement, well done guys.



Dougie says:

3rd Feb 2015 at 6:32 pm

Full Minecraft isn't just pure Java. It's Java plus JNI. The source code for Minecraft is closed so there's no way to port the JNI (Java Native Interface) pieces. Those pieces exist for the parts of Minecraft where pure Java is too slow and therefore wouldn't be useful in an X86/X86_64 emulator (even if that were possible).

You'll have to ask Mojang/Microsoft to create a special build. While you're there ask them for a refresh of the Minecraft Pocket Edition that we've got on the RPi1.



Ben Nuttall says:

4th Feb 2015 at 12:23 am

Plus, that was given to us as an educational tool, not a game.

How does the existence of a new version stop the old versions working exactly as before? People that bought a B, or B+ yesterday are getting exactly what they click on the 'buy this' button for. The fact that there is now an even better Pi does not damage them one whit.

It's hard to get lunch for much less than the cost of a Pi. I've seen people whining about demanding a free replacement, about how it doesn't include a GazillionGB and Zettabit ethernet. And of course, it shamefully include No Pony, not even a pink one.



malcolm newton says:

3rd Feb 2015 at 6:58 pm

Congrats was just thinking I needed more power after installing Ruby/Rails.
Just ordered Pi2 from Newark/element14 here in Canada.
Any idea the ship dates? I hope its not April?



Ben Nuttall says:

4th Feb 2015 at 12:22 am

> Congrats was just thinking I needed more power after installing Ruby/Rails.
Great! How does rails perform?
> Any idea the ship dates? I hope its not April?
It'll likely be within a week assuming Canada's on form. We're producing 20,000 units a day so we should be managing to meet demand without a long wait like in 2012.



David Lowe says:

3rd Feb 2015 at 6:58 pm

Better to recommend "sudo apt-get upgrade" to save on bandwidth at this time. This is sufficient to get your B2 to boot, but excludes a handful of big packages (Mathematica & Wolfram Engine inter alia). Grab those later when the servers are less stressed!



David Lowe says:

3rd Feb 2015 at 7:04 pm

HiJames – what's in the silicon that makes the 2836 clock faster than the 2835, for lower overvolt? Is it narrower lithography, or some other? I remember Dom saying the foundry had tweaked things in favour of speed at the expense of power consumption at the time of the B+ release. Is it more of that?



Imam Mohammad Bokhary says:

3rd Feb 2015 at 7:12 pm

Great...in a cheap rate with excellent performance capabilities.



Ron says:

3rd Feb 2015 at 7:16 pm

Bought one today exactly because it will run Windows.



John says:

3rd Feb 2015 at 7:17 pm

Congratulations! Does anyone have advice on how you upgrade and modify an existing image like Raspbian? We have a custom image for our [robotics projects for the Raspberry Pi](#) that need a custom image ([link here](#)). Any hints on whether we'll need to release an entirely new image to make this work with the Pi2?



Alidad Modjtabai says:

3rd Feb 2015 at 7:19 pm

this is not \$35.00, this around \$45.00, I was planing to buy one, and the average cost is between \$45.00 to \$55.00.

Can find \$35.00 for that new version, does anyone where to find that price!

BLOG

DOWNLOADS

COMMUNITY

HELP

FORUMS

EDUCATION

 Liz Upton says:

3rd Feb 2015 at 7:51 pm

The \$35 is ex tax and shipping, so prices will vary depending on where you live.



Legohammer says:

3rd Feb 2015 at 7:29 pm

Seems like I'm not the only one where RS have taken my order and money but can't now deliver. Feels like deja vu as I had this problem when the Pi first came out. Hoping that the wait will only be a couple of weeks not months like last time ...



Ben Nuttall says:

4th Feb 2015 at 12:18 am

It will likely be days not weeks or months! Sony are manufacturing 20,000 units a day currently.



Marino Meloni says:

3rd Feb 2015 at 7:37 pm

Well done, will order one immediately
thanks for this great project



Beau says:

3rd Feb 2015 at 7:43 pm

How can I order one in America. Element 14 just says "product not found"?



free says:

3rd Feb 2015 at 7:51 pm

For minecraft, minetest may work and it's really free.
A question: does the gpu processor change?



Liz Upton says:

3rd Feb 2015 at 8:02 pm

The GPU is still the same.



Ben Nuttall says:

4th Feb 2015 at 12:17 am

Good idea! Give it a try and let people know how you find it.



Eric Olson says:

3rd Feb 2015 at 7:54 pm

The presence of 4-core SMP could be used for teaching and illustrating parallel algorithms. Does anyone know if the GNU GCC 4.9 CilkPlus patches work on ARMv7?

<https://www.cilkplus.org/build-gcc-cilkplus>

Will Mathematica still be free for the faster CPU?

Also, does anyone have precise power measurements of the new board compared to the B+ board? At idle what is the current draw? How does the maximum current draw compare with all 4 cores and the video core running full out?



Ben Nuttall says:

4th Feb 2015 at 12:17 am

> Will Mathematica still be free for the faster CPU?

Yes! :)

Keep an eye on <http://www.walkingrandomly.com> over the next few days. The author, Mike, will be writing a benchmark post like he did when it first came out:
<http://www.walkingrandomly.com/?p=5220>

Education recycling:-

IF the Pi is meant for education
AND responsiveness is a must in classrooms
AND there is a 'long tail' in demand for older Pis
AND green recycling is a plus

THEN why can't schools return their old Pis for free replacement with Version 2s
AND full production move across to V2's only

Schools benefit – industry benefits – and the planet is happy!



Eric Olson says:

3rd Feb 2015 at 8:14 pm

LOL, any recycled Raspberry Pi that has survived a year of school use should be considered to have passed more rigorous testing than any aerospace or military-grade standard requires.



aristofeles says:

3rd Feb 2015 at 8:17 pm

Cant find worldwide delivery too :(



alkendi says:

3rd Feb 2015 at 8:22 pm

I ordered my Pi2 yesterday from RS, having had trouble doing an online purchase (due to my card not RS) I phoned and the order was completed by a VERY helpful and extremely patient person given the volume of calls and orders being made yesterday.
The Pi2 arrived in my hands less than 24hrs after the order was processed.

I have NO complaints about RS or their service, only praise they have never let me down on any of my previous 3 Pi models since my 1st order on Launch day.

BTW Kudos to the Raspberry Pi Foundation on the new Whizzbang evolution You Guys are the best



Pete says:

3rd Feb 2015 at 8:27 pm

Ordered up mine from RS ... Looking forward to getting my hands on it ! Lots of posts are talking about cost/prices ... It seems to me they cost 35\$ but they sell for all sorts of prices because of taxes, choice of shop, speed/cost of delivery Import export issues? I once ordered a case from pimoroni and liked the paper bag it came in as much as the product! I can't see that anyone is getting ripped off for a sub £30 bit of kit? Shop around .. theres no conspiracy!



Paul Roe says:

3rd Feb 2015 at 8:27 pm

HiLiz,

Forums seem to be redirecting to the blog posting, don't know whether the site is under heavy traffic.

Only a Linux noob in the grand scheme of things, but the Ubuntu snappy image has a problem.

It doesn't have ntpdate installed so the system year is 1970 (because of the lack of RTC), which means that when you go to update snappy or install a package you get an ssl error because the time is wrong, overriding the date allows you to use the image (until you reboot).. I use > sudo date -set="Tue Feb 08 20:11:55 UTC 2015"

Could someone look at this as the image is unusable at the moment IMHO.

Regards,
Paul



Pete says:

3rd Feb 2015 at 8:38 pm

**uLix** says:

3rd Feb 2015 at 8:43 pm

Could you get us some news on the display?

**James Hughes** says:

3rd Feb 2015 at 8:46 pm

Mainly thinking – "its going to take a different chip or another 2 years to add it to the 2826, and we can't break backwards compatibility or wait two years."

**Tony Hughes** says:

3rd Feb 2015 at 8:57 pm

Great announcement and product guys.

I can't believe some of the comments though...

1. Windows – if you don't like it, don't use it.
2. Windows – looks to me like its probably going to be a non-GUI "Internet Of Things" based OS version. You won't be running browsers and office.
3. You ripped me off – no, the Pi you bought yesterday still does exactly what it did before the Pi 2 B announcement. I own 8 Model B's and they haven't stopped working. My investment in them has not become worthless – they still do the same job they were doing last week.
4. Price – seriously – can you read? \$35 plus sales taxes, shipping and currency conversion. I can find them for \$35, so can you. If your retailer charges more than \$35 plus sales taxes, shipping and currency conversion, vote with your feet.
5. You didnt do "this" or "that" – your personal requirements probably came second to Raspberry Pi Foundations goals, timeframes, and target costs.
6. I need a free Pi 2 B because I bought an earlier model – are you even reading what you write before you click post?
7. Schools should get free replacement Pi's because they bought earlier models – see above.

Many more examples...

All the Pi models are great. My first Model B rev 1 is still ticking along as a media center with huge uptime, and no new release has devalued any previous release in any way except for resale value on the secondhand market, which is just a normal fact of life.

**Ben Nuttall** says:

3rd Feb 2015 at 11:52 pm

Thanks for your helpful comment :)

**Joakim** says:

3rd Feb 2015 at 9:06 pm

I do understand what Christian is saying but i think it is imposible to do anything about. He is from Denmark and i am from Sweden but i think its the same in many countrys. The prize of the B+ has been holding steady for quite some time but the new pi2 sells for around 20% more. The stores just sees an opportunity to make some monye, because they know that the first batch will sell out fast no matter what.

**PeteG** says:

3rd Feb 2015 at 9:13 pm

Ordered mine from RS yesterday noon as Element 14 were out of stock, cost more, but worth it I thought. RS said order would be despatched same day for Tuesday delivery. Waited in all day Tuesday, at 17:15 got an email from then saying they were having problems supplying them. Less than happy.

**Szymon** says:

3rd Feb 2015 at 9:14 pm

\$35 WHERE!

You have to increase availability, until then same clever seller will get as much as they can on Pi2 hungry consumers. Demand is now higher than availability so it is a simple way to grab quick money from market.



edwinj85 says:

3rd Feb 2015 at 9:25 pm

@Dougie – Damn. Well Microsoft are being pretty awesome at the moment, maybe they WILL port full fat minecraft – think of the educational gains! Ahem.



Gee 'The Rabid Inventor' says:

3rd Feb 2015 at 9:28 pm

Ok! have had a couple of nights playing with the new Pi (sorry dudes work for a distributor).

My big thing is hardware and GPIO two notes to watch out for in these early days after the launch.

RPi.GPIO doesn't work straight out you will need to download the latest version from sourceforge (check my blog)

and if you are programming in C or Python (haven't checked any others) you will find any sleeps or delays will be longer in some cases up to 10%. this is easily fixed by setting any of the overclock options in raspi-config including none.

Hope this helps

Gee :)



Harold Fieger says:

3rd Feb 2015 at 9:30 pm

Amen to all of that. Come on and be real it is \$35, it costs more than that for a single dinner out.

Come to think of it though, the new Cadillac CTS has a touch screen dash and mine doesn't. I guess they owe me a new one for free. oh yeah, and a new tablet, phone, 3D TV



Gee 'The Rabid Inventor' says:

3rd Feb 2015 at 9:36 pm

Forgot to mention this is all from a fresh burn of the latest version of Raspbian 31/1/15



barbaz says:

3rd Feb 2015 at 9:43 pm

WHYYYYYYYYY Why they release raspberry 2 just 1 week after my raspberry 1 order T.T



Mike Hooper says:

3rd Feb 2015 at 10:02 pm

Reading this on my Raspberry Pi 2 :)

Fantastic performance improvement, well done foundation team.



Ben Nuttall says:

3rd Feb 2015 at 11:49 pm

The browser flies, doesn't it?



MW says:

3rd Feb 2015 at 10:05 pm

Having responded, will do so again regards Windows 10

MS are not offering an ARM version of Windows 10, what they will be offering is a Development Platform for developing "Internet of Things" based on the most recent NT Kernel

So if you really want a full fat ARM Windows 10 then purchase a Tablet !



Jim says:

3rd Feb 2015 at 10:14 pm

Awesome news!



Robert_M says:

3rd Feb 2015 at 10:19 pm

Yay! Much Love & Hugs to all at Pi Towers for the incredible work you've done! Looking forward to getting a Pi2 :-)

It seems that, in fact, some people can now actually get their Raspberry Pi with the sandwich included. Good deal!



Vayu says:

3rd Feb 2015 at 10:34 pm

"we want to make Raspberry Pi more open over time, not less."

Then why have Windows?



Clive Beale says:

3rd Feb 2015 at 11:42 pm

Schools in the UK are obliged by law to provide a "broad and balanced curriculum". In a similar vein we are committed to providing a broad and balanced platform of hardware and software for computing, learning, making, exploring, teaching, engineering, hacking and creativity. "Open" does not just mean "open source".



Wayne Manners says:

3rd Feb 2015 at 10:44 pm

The Windows 10 news is actually really HUGE! Up until now I've avoided the raspberry pi because it didn't run any useful software and really, who wants to deal with the hassle of Linux anyway?



Ben Nuttall says:

3rd Feb 2015 at 11:02 pm

Wow



mw says:

3rd Feb 2015 at 11:00 pm

<https://dev.windows.com/en-us/featured/raspberrypi2support>

Please read it is not Windows par-se



Lada says:

3rd Feb 2015 at 11:04 pm

I'm too a little bit disappointed that Pi 2 doesn't have SATA – even though it's great otherwise, and bit congrats to that! SATA is on my wishlist – because I'd use Pi as a personal NAS with a terabyte disk, which is still cheaper than using USB based flash storage. And more reliable because of error handling (bad sector, etc.)

Could you make an official recommendation list for USB to SATA converters? I mean a stress test report. I've spent some whole days searching info on reliable SD cards to work with Pi, and eventually came to the conclusion that only Sandisk Ultra and Extreme would be low-risk. So it's a bit of hassle to make a reliable Pi system. On the SD cards side because most of the SD cards controllers aren't tuned for the threaded load and read/write scenario. On the SATA side because the bridges in the USB-SATA bridges aren't tested and some older don't handle disks >2TB

Many congrats though, excellent work!

Pi2 is entirely backwards-compatible with Pi 1. To achieve this, the chip architects at Raspberry Pi and Broadcom left everything alone besides the CPU – which they replaced with a quad core ARM7. Adding extras would have led to further complications and added an element of risk to the success of the chip.

Also, although some people would find SATA useful, it's not important for use in education, which is why it wasn't there in the first place.



Adam says:

3rd Feb 2015 at 11:07 pm

Aslong as there's some distro of Linux that works well with the board, I'm content to let Microsoft publish whatever they want.



Ben Nuttall says:

3rd Feb 2015 at 11:42 pm

That's a good attitude! After all, Linux is all about having a choice.

Windows 10 will not be a desktop environment anyway so it's not going to replace Linux.

We've put an awful lot of work into optimising Raspbian to run as well as possible on the Pi's hardware. The hardware just got a whole lot better (or, four/six/whatever whole lots better) and those optimisations are still making a huge difference. Sure, you can probably run vanilla Debian but Raspbian provides an experience fine tuned precisely for Raspberry Pi.



Lada says:

3rd Feb 2015 at 11:34 pm

Maybe it's because you are taxing only one core of 4 at 100% load ? ;)

The load is computed from all cores in a system, AFAIK. Even on a quad-core intel machine, I hardly load it more than 25% by browsing by Firefox itself. The browser would have to be multi-threaded (Chrome is believed to be done thread-frindly). Or I'm wrong and it really taxes the chip at 25%. But wait- there's a way to know, look at a specific process (using top, htop commands) and see, if it's running at 100% load. That way, you'd be actually running it at 100% like the Pi 1 , but you'd not use other cores.

It's confusing, load of the system is sum of partial loads (100%=4 cores loaded), but load of a process is computed against 1 core (100% load = 1 core loaded).



Dwight Emolient says:

3rd Feb 2015 at 11:34 pm

Three years ago I bought one of the very first Raspberry Pis and now you bring out a brand new one for half the money that's has a terrorHz and can run 19 times as good! It's a disgrace! Is this how you treat your loyal fans? Imagine if I made dishwashers and YOU bought one and it washed your dishes really well and was economical and did what you wanted and then two years later I brought one out for the same price that had an "Add rinse aid" light and a 30 degree eco wash. How would you feel? Not so cool now is it? I may as well pay my wages straight into the Swiss bank account of a mad dictators WMD fund than buy your so-called "computer".

You were to stupid you could not even give it SATA8 and a Meganet webplug so what is the use even Kumquat Pie has this and it only costs \$99+VAT. You say I must pay \$35 for another computer NOW when I can buy 2 "Chicken Legend with Cool Mayo" from a well-known fast food outlet plus a pair of stylish flight socks for that. I feel dirty like the Cat in the Hat when he leaves ring around the bathtub, but a greyish ring not pink.

As for m¥çR0\$0f7 (GEDDIT!) you have signed a contract in your pants with Beelzebub and all his little Visual Basic Imps. They will go "chitter chitter... 'Dim IsEvil As Boolean" and it will always be set to "True" and then you will loose your pants and its not laughing matter with VB Imps all around.

My friend knows a man who lived by a hairdresser who once gave a headcut to a teacher (number 2 GEDDIT!) and the teacher said that he once saw in a ICT lesson (aka Bill Gates Foundation \$ermon) a M\$ Office come out of the screen with hoLOLens and suck a child's medulla oblongata straight out using a Macro and since then all he can do is Autosshapes in PoWerpoint!!!! Typing with his poor child's FACE! How can you team with that??? !! It's not even right. I hate you Raspberry Pi and its Kumquat Pie all the way for me now.

I love this



Lada says:

3rd Feb 2015 at 11:41 pm

I wonder, is anywhere out there some hardware, which uses the DSI interface? It's for LCD displays, I'd like to see an LCD with this interface on top of my Pis, but unfortunately no real product there. And it's only two-lane if I can remember right – hence for small resolution displays. Did engineers at Broadcom consider this and maybe added some more lanes to the design? Or would that seriously break the VideoCore IV, hence made it virtually impossible?

I'd not mind the small resolution though, had there been an actual LCD made for it and worked. :(

Otherwise, without an actual usable LCD, it's a waste of space on the board. A fifth USB ports' pins' facing upwards would have been more useful for HATs with USB circuitry onboard, like a HAT with more ethernet interfaces.



Lada says:

3rd Feb 2015 at 11:44 pm

How about HDMI going into screen blank, I mean, turning the HDMI off after a while for proper monitor sleep. I couldn't get it to work on a RPi1, read somewhere it's a hardware inability of the original BCM chip to do it. Any progress, workaround or hack with the new BCM chip? Or I'm completely mistaken and it works on RPi1?



Pelican says:

3rd Feb 2015 at 11:45 pm

95/30=3.16666



Hernan Rocchietti says:

3rd Feb 2015 at 11:54 pm

Hello, Congratulations, I have a pi b+, is fantastic, I want a pi 2b. Know if was manufactured in Brazil? in South America timeout much, the price is around \$ 80, for official mail stolen, I think if manufactured in brazil exchange a bit of that.



jdb says:

3rd Feb 2015 at 11:56 pm

Nice post, but you forgot to demand four wheels and a sandwich.

9/10.



nathanael says:

4th Feb 2015 at 12:07 am

I suspect many of us with long memories who have been following the forum posts from the beginning are quietly chortling to ourselves. More or less every feature request denial has been fulfilled! I wonder what others will definately not happen (chortle chortle).



Valentin Jesse says:

4th Feb 2015 at 12:42 am

Still no optical SPDIF. I hate the fact that i have to pay \$70 in my country to get a silly box that can handle the digital audio.

:(



mr floppy says:

4th Feb 2015 at 1:32 am

Ohmate, thank you. Didn't know there was a free one. Not a big windows user other than at work and this will help. Guess MS is trying to stem the flow of developers that are moving away from traditional windows development. Next step, a free windows 10 developer edition? Wouldn't expect it but it seems MS are opening up a lot more

Lada says:

4th Feb 2015 at 1:46 am

> I not convinced Android gives any advantage in education....

(for some unknown reason, my posts aren't glued to the answer I post comment to, sorry)

Have you ever thought about what the education starts with? I mean, for some people the first contact with a computer is through some user-friendly system. Wouldn't it be fine to have Android as an option – for people who aren't attracted and addicted to hacking yet? For example, show the small kids that their TV can handle some more than play TV shows, that it can be interactive and then it CAN do some more stuff, if you reboot into some yet unknown environment with a big raspberry picture in the middle of the screen ... ;)

On the other side of users, what about my parents (>70yrs), what about them? They can use RPi as well – connected to their TV or LCD, all the time, using a friendly interface and rich ecosystem. And then joining the best of both worlds – the UI from Android for example and programmability of RPi and I/O, some useful stuff could be made – I think for example about watchdog for old citizens, where some IoT wireless gadget could watch their health, if they're ok, not dying on the floor with a broken leg. Yes, you could do it with a Raspbian, or XBMC based distro, but if they'd benefit from Android and other apps there....it could serve both purposes at once.

...just a few thoughts. I certainly think there's some audience who would be attracted to RPi ecosystem just by the ability to run Android, and then,... some more.

It's about UIs. And finally the RPi2 has the power to let some watchdogs running while serving the (user's preferred) UI now. And I think under Android ecosystem some educational programs are there and are useful.

Some time ago, I was active in a community of people (only ~40000 in a 10M country) building community networks. And one of the goals was to supply people with own settopbox, connected to LAN which could play DVB-T TV (or IPTV), have some browser in it, and some more stuff. And RPi would have been the best for it, but the people (and many of them young pupils) expect some friendly interface. I then eventually stopped my efforts and the solutions fragmented, based around settopboxes from various manufacturers with friendly solutions, yet tragic programmability.

Isn't the education of old people how to operate a decent Android UI an education worth educating? Without their fear that they f*k up something irreversibly? ;-)

Think again.

p.s. My neighbours have a child with a Down syndrome. And guess what – he explores the world through a tablet, even though he doesn't understand most of it yet. For these and alike unlucky children, the education and learning means exploring some preset world full of educational videos, applets. Some Android based distro with educational content for a home TV wouldn't serve anybody?



Ben Nuttall says:

4th Feb 2015 at 1:48 am

The main supported and recommended OS will continue to be Linux, in the form of Raspbian. We've put a lot of work in to optimising it to perform well on the hardware and it's compatible with Pi 2 and all 4.5 million Pi 1 boards out there.

Also note that Windows will not be a desktop OS – just an IoT developer platform. It won't be usable by itself without deploying applications from a PC.

The most important thing is that you will always have a choice. If you want Linux, you can choose Linux. There's no need to move away because the hardware you're using *can* run Windows. I'm sure you're using a PC or laptop that *can* run Windows – but (I'm assuming) you chose to run Linux. It's exactly the same with Pi.



dcrunkilton says:

4th Feb 2015 at 1:51 am

Newegg lists 3rd party vendor's products on their site, handles the sales for items shipped by the vendors including element14's raspberrypi.

Newegg has even used ebay to directly sell Pi +A. That is where I got a couple, while waiting for element14 in the US to receive stock.

Though, I doubt that you will find the Pi2 there anytime soon.

It's awesome.

Leaves nothing to be desired if I didn't buy raspB+ last week.X(



aremvee says:

4th Feb 2015 at 2:26 am

First reaction was concern. Concern that the Pi-volution was heading down the bigger-better-easier-predigested-sealedSolution path that we didn't experience in the 80's, and it was the overcoming of those problems that got the grey cells lining up.

However I can see the sense in such a release. It brings a new class of functionality for those in third world education to try out their own computation intensive tasks like fluid dynamics, render farms, RF Comms etc. especially if I.o.T. improves their lot in the process. And if that means Win10 is along for the ride, so be it. And it opens up the doors for serious industrial prototypers.

But I do hope the Model A+ will always remain in the scheme of things as each end of the spectrum defines the other. The A and the B lines are (by nature of usage) very different beasts, with the A line going down the absolute minimal side where it's good and creative to be constrained by the limited spec, not to mention low power and weight which is it's meal ticket. An A2+ [or A+2] would be a bit of an enigma, sort of like an impoverished B2+.

Anyway a good business decision.

—

Regards the earlier comment about B^2, I think the OP was referring to B squared, which is a reference to the Quad Core springing forth from a Single Core. Structural Engineers would see the math sense more than electrical engineers.



Jonny K says:

4th Feb 2015 at 2:28 am

absolutely me too....

I should save for some months again to buy new one. :(



cdpne says:

4th Feb 2015 at 2:41 am

I bought one because of Windows 10!



Paul B. says:

4th Feb 2015 at 2:55 am

Brilliant! Keep up the above-expectations work!



dcrunkilton says:

4th Feb 2015 at 3:31 am

Element14, new stock in mid March.



Nova says:

4th Feb 2015 at 4:54 am

Good, and when will the display(screen) release?



Albert H says:

4th Feb 2015 at 4:56 am

> Yes, about two years ago. (Slashdot comments are perhaps not your most reliable source of news.)

Heh, fair enough! You mentioned 2 years ago... which sounds like Model A contained this fix. Is that correct? (And presumably, future models (A+, B+, and RPi2B) have this fix as well?)

Was the source of the problem described on Slashdot correct? And how was the issue fixed (regardless of Slashdot's [in]accuracies)?

What worries me about Microsoft's involvement is I remember how when linux was getting involved in the netbook market suddenly MS decided to jump in. They leveraged their market share to stamp out the advances that linux was beginning to make in that niche. There was also the way they stomped out linux in the "one laptop per child market." I'm sure they feel threatened by linux on arm devices especially one meant for educational purposes. The very idea of children learning to compute without MS products is anathema to them. The EEE method rides again.



Pascal Riendeau says:

4th Feb 2015 at 6:33 am

I'm not sure that keeping the upcoming upgrade secret was such a good move. Many of your buyers value transparency, it's a core value of open source afterall, and previous indications led buyers to believe that no hardware revision was forthcoming in the short term. I don't doubt many small organizations who just bought a bunch of B+ might have found it to be much more valuable to postpone. When you work with a very small budget and need to get funding, value is very important.

Would it not have been possible to sell the new Pi at 40\$ and discount the old one at 30\$ until inventories had shifted? Barring this, the landfill argument is on shaky ground : it may very well be that a sizeable portion of buyers who aren't using the Pi for it's GPIO are going to buy a new one, let the old one take dust and eventually dump it. Previous comments on the idea of establishing a centralized trade/gift program would go a long way to avoid this (I'd sure use it). E-waste needs to be taken seriously.

Don't get me wrong, I'm very happy about the new model, I just think it could have been handled differently. Engaging your community on such issues ahead of time and making them a part of the solution seems to be a better avenue for the future.

By the way, I've seen briefly mentionned that the work on Maynard had been put on hold, does this new model mean that it's now completely off the agenda? Hope not!



Aditya Nath Jha says:

4th Feb 2015 at 6:52 am

A great product for a great price, and the \$35 price for Windows 10 based SOC computer is really awesome, looking forward to run my own test kit!



Mathew H says:

4th Feb 2015 at 7:01 am

I purchased mine from Element14 Aus, Received it today for a whole \$38aud.



flakefrost says:

4th Feb 2015 at 8:00 am

Looks very nice. Windows 10 support is a huge bonus!



Jonas Grosse-Holz says:

4th Feb 2015 at 8:27 am

It is also "open" for everyone to develop an Operating System for it. It was Microsofts choice to release Win10 for the Raspberry Pi 2.



dan3008 says:

4th Feb 2015 at 9:05 am

Checks date nope not april 1st, so not an evil april fools day joke

Checks pulse still alive so not died and gone to heaven

pinch Owch, ok, not dreaming...

:O YAY A new pi :D



Pete says:

4th Feb 2015 at 9:12 am

They were selling netbooks with xp on after they announced end of life! Lots of people I know got caught out by that. ... I Welcome MS to the Pi but am under no illusion that their motivations are completely different to the Linux community's ... We have to show by how

**Jongleur** says:

4th Feb 2015 at 9:30 am

I think people are getting a little wound up about the "micro\$oft" thing. The problem Microsoft will face is the entire Raspberry Pi ecosystem isn't tolerant of their methodologies so even if they port the entire Windows 10 experience (or even the phone/tablet version) to the Pi 2 they'll have a difficult time. I can see people signing up for their Developer programme, but mainly out of curiosity!

In addition, Win10 for ARM wouldn't be the same as Win10 for desktops and the innocent will expect to be able to run their existing windows software on a Pi2

**ED** says:

4th Feb 2015 at 10:15 am

Yep, this happened to me. The old layer 3 of the B+ case won't fit on the new Pi 2. The cpu is actually not a problem, but a couple of condensators definitely and I think the USB-LAN chip are in the way.

**UNOwen** says:

4th Feb 2015 at 10:16 am

This is wonderful news! Will the Pi 2 be released by Egoman of China too? I am longing for a Red Pi 2.

**Michael Horne** says:

4th Feb 2015 at 10:48 am

Respect to Dwight for that wonderful diatribe on the bad things about releasing a new Pi that is so much better than the old one.

**Florian Manach** says:

4th Feb 2015 at 11:08 am

TOALL THE ANTI-MICROSOFT FOLKS OUT THERE :

It is a bit funny to see people preaching the "Open Source" culture as a model of freedom and on the other hand raising the shields when the new Raspberry Pi is announced to be supported by new operating systems.

It is all a matter of freedom, needs and choice.

The Raspberry Pi is designed to be a learning tool. It is not designed to be YOUR computer.

With this partnership, the Raspberry Foundation brings the opportunity for people who want to learn Microsoft technologies or to build project based on Windows 10 IoT to do so. You should be happy.

There is no good and no bad on this topic. There are just choices to take based on what you want and what you need.

There is no point ranting about proprietary software or hardware for the same reason.

The most funny thing is that you guys are preaching freedom and openness but you are showing here that you are maybe the less open-minded of us.

My two cents.

**Matt Smith** says:

4th Feb 2015 at 11:21 am

Brill I shall fire some commands today and make it all work

**Markus T** says:

4th Feb 2015 at 11:32 am

While i am still getting a Pi2... i am gonna stick with Linux... and what not.. cause microsoft has too much damn red tape involved to use windows 10.. you can't just be a tinkerer.... so forget that.. i will just stick with Linux based OSs..

Still, looking forward big time to getting one!

I can't wait.. been considering one for a LONG time, but kept putting it off until i did a

... perfect for a small console for playing more simplistic games.



Szymon says:

4th Feb 2015 at 11:52 am

OK! So there is no official distribution channel in Poland for personal usage. If you have a company you can buy it at RS, if you don't own a company buy from people who raise price for their own profit.

Very funny Raspberry Pi 2 black market. Is that what foundation want?



AlDante says:

4th Feb 2015 at 12:14 pm

I don't understand how adding the option of another operating System can be a bad thing. There are versions of RiscOS, FreeRtos, various Unix derivatives and now a Microsoft operating system. One more alternative to see different strategies for implementing driver architectures and one which will offer different services to experiment with and learn from.

Some people you can please none of the time...



AndrewS says:

4th Feb 2015 at 12:21 pm

Squeezing the contents of an 8GB SD card onto a 160MB hard drive must be using a fairly fancy compression scheme :-)



Andrew says:

4th Feb 2015 at 12:39 pm

Any plans to include integrated WiFi? Either as a new board or as an add-on (like the camera module).



AndrewS says:

4th Feb 2015 at 12:47 pm

But it's what the Broadcom engineers do for a living, so I suspect they know what they're doing ;)



che says:

4th Feb 2015 at 12:51 pm

Supporting Windows 10 is not a good thing, because the Gates Foundation is lobbying against Open Source and free Software all over the Globe.

Microsoft is the biggest Lobbyist worldwide and fights against free Software and free Access that the Raspberry is all about.

<http://techrights.org/2014/07/24/valerie-strauss-and-common-core/>

http://techrights.org/wiki/index.php/Gates_Foundation_Critique

It's really better to not work with that Company and to not use their Products at all.



Ben Nuttall says:

4th Feb 2015 at 1:15 pm

Like the PC market, It's all about choice. You can choose between Windows and Linux.

Linux will remain to be our fully supported and recommended OS for general use and particularly in education.



che says:

4th Feb 2015 at 12:56 pm

Does the Raspberry Pi 2 require the Mpeg License key?



Ben Nuttall says:

4th Feb 2015 at 1:06 pm

e

**Sanjay Jude** says:

4th Feb 2015 at 1:08 pm

I would like to purchase this new version. I already have the ver. A with 1 USB port and no Network.

Where can I purchase it in Oman.

**Pete** says:

4th Feb 2015 at 1:59 pm

Anaffordable hat is required with this feature me thinks!

**Sheroy** says:

4th Feb 2015 at 2:08 pm

Good. Now as the Pi is more powerful and may be partnering with Microsoft (which is going towards the touch enabled devices also)...When is the screen coming out! I guess that it should be soon.

Its good... now will have my 4th Pi (all model B's with different versions!)

**Rafael Mangualde** says:

4th Feb 2015 at 2:12 pm

Hi! Does the Raspberry load VLC?

**Ben Nuttall** says:

4th Feb 2015 at 3:25 pm

s

e

**Manuel Moura** says:

4th Feb 2015 at 2:18 pm

Good news, then.

**Hoek** says:

4th Feb 2015 at 2:33 pm

First time I will buy RPI. I own a BPI but the support is terrible.
I noticed there is a shortage of RPI version 2 in spite the fact they say its already on sale.

**Martin** says:

4th Feb 2015 at 2:33 pm

Itis a well-known fact, that Microsoft and other companies are spying on their users:

<http://www.theguardian.com/world/2013/jul/11/microsoft-nsa-collaboration-user-data>

Btw., I can't see any educational benefit in supporting closed source software. People must be allowed to study the source code, to change it, etc.

**Clive Beale** says:

4th Feb 2015 at 7:54 pm

Fortunately for humanity "education" has a somewhat wider meaning than "studying source code".

**MOB** says:

4th Feb 2015 at 2:40 pm

There is a risk that some people will try to boot Ubuntu Snappy Core on their Raspberry Pi 1 A/B/B2/A+/B+. It's not marked on the download page that not all downloads run on every Pi.

As a bit of a counterpoint to "Android on Pi", I've got several Android phones, including a

couple of non-activated prepaid phones that cost me \$10 or \$20 in the run up to Christmas. In the US at least, one can routinely buy low end Android devices in the \$40 range with CPU and memory specs similar to a B+ and with integrated accelerometer, GPS, touch display, battery backup, audio I/O, and WiFi thrown in for good measure. The only advantage the PI offers is discrete I/O. Why would anyone use a Raspberry Pi to learn Android development given this reality?

While I'm on the topic, for educational purposes, the MIT App Inventor stuff is worth checking out. Much like the work of the RPF, it makes entry level programming very accessible, though in the Android device domain.



JanW says:

4th Feb 2015 at 3:13 pm

Everyone feels that the RPF are in league with MS not so

...

The crucial word is development and if the people who splash "install Windows 10 on RPi" on Blogs would get their facts straight stupid comments would not be posted.

From the original blog post:

Because it has an ARMv7 processor, it can run ... Microsoft Windows 10.

...

For the last six months we've been working closely with Microsoft to bring the forthcoming Windows 10 to Raspberry Pi 2.

You will have to admit that the original blog post does not sound like "Microsoft has decided to port a version of Windows 10 for headless applications to Raspberry Pi 2." It does sound like "The foundation has been working to let you use Windows 10 on your Raspberry Pi." Don't blame the misunderstanding on readers who IMHO may be forgiven to not grasp the range of IoT applications targeted by this development, as there is actually very little specific information provided.



Ben says:

4th Feb 2015 at 3:29 pm

Any idea why Adafruit is selling them for \$45? I thought they were the same price as the B+.



JM says:

4th Feb 2015 at 3:36 pm

How can I buy from RS?. It ask me for the legal info of my company, but I'm an individual.



Richard Grant says:

4th Feb 2015 at 3:38 pm

Some tech pundit remarked last week that Microsoft's core competence these days is vaporware. That may be what Windows 10 on the Pi turns out to be.



Richard Grant says:

4th Feb 2015 at 3:40 pm

element14.com — they're out of stock, but you can place an order. Estimated wait time is 10 days.



AndrewS says:

4th Feb 2015 at 3:59 pm

Florian Manach says: (to all the anti-Microsoft comments)

"The most funny thing is that you guys are preaching freedom and openness but you are showing here that you are maybe the less open-minded of us."

My thoughts exactly :) Peace and love, live and let live, hugs all round.

Additionally, even people buying the Pi2 to 'only' run Windows 10 IoT on it (rather than Linux), still generate sales revenue for the Raspberry Pi Foundation to plough back into their (Linux based) education mission. It's a bit like when people where complaining about people buying the Pi to 'only' use it as a media player...

Good point, Andrew.



john lee says:

4th Feb 2015 at 5:12 pm

Resnappy ubuntu on rpi, is there any version of wheezy or jessie that WILL run on rpi 2.

If not why not? Surely the arm instruction set used for wheezy is the same as for rpi 2?

Dohhhhhh

John



1010011101101010-checksum

4th Feb 2015 at 5:47 pm

says:

Let us leave the ridiculous conspiracy theories on the doorstep, shall we? Especially when there are also proprietary parts of the Pi. Besides, life's too short to sit online and over-analyse things and draw unbalanced, unfounded, cherry-picked "conclusions". Business uses what works – Windows works – noone except extremists and FOSS fanboys care too much about wasting their lives pulling apart source code, EVEN IF they knew how to read it (IE, we don't all speak in C++ source).

Live your life, use what works. The vast majority of this "open" stuff you use, you'd never have the time to sit and analyse ALL the source code for AND have time for life itself, in a million years.



MW says:

4th Feb 2015 at 6:04 pm

The Raspbian Operation System has been updated to run on this new Pi, so no need to worry

Jessie is still in Testing Status.



Bren says:

4th Feb 2015 at 6:15 pm

I think it's great news that Windows is coming and don't believe this will be Armageddon for Linux on these devices. Instead, this looks like the 80's PCs where increased demand skyrocketed and brought prices down dramatically. Anybody remember how much a 8088 cost? Plus, it provided the best hardware platform that allowed Linux to flourish even with MS-DOS dominating them.

Instead, I see Linux and Windows playing up both of their strengths. Linux has 100% tweakability, loads of mind-share and can change & improve daily. Windows has consistency, compatibility, and if they support it, xaml+RT api are actually pretty good.

So, we get more choices. Raspberry Pi gets a lot more customers to drive volume and scale which should lower prices and enable more innovation. Why complain?



Ben Nuttall says:

4th Feb 2015 at 7:07 pm+

1



Jole says:

4th Feb 2015 at 6:25 pm

Glad to see a new Pi2 come out. But... It should have happened long time ago along with a 1Ghz cpu, 1Gb Ram and gigabit nic. There is another board out there with 1.5Ghz ARM cpu, 1gb ram and gigabit nic for \$35. Tell me why should I buy the Pi2? I'll probably end up buying both and test them out and runs some benchmarks. Thumbs up for bringing Windows 10 to the Pi2. You are expanding the end-user base enormously with that.

Cheers!

Raspberry Pi has awesome community support you don't see with Average Joe Random Board From China.

Yes, the spec on some other boards is competitive (usually the price isn't) but there's no use having a slightly faster board you paid extra for if there's no-one to help you get it working.

Every day thousands of people use Raspberry Pi in education, industry and hobby projects – the wealth of experience of these users is fed into making the Pi better – even the ones who are learning along the way, or have no idea what they're doing – their questions and bug reports help identify problems which can be resolved by the community or our own engineers.



Rich says:

4th Feb 2015 at 6:29 pm

Not sure yet what the goal is.... but from a first read.. 10/100 no WiFi... USB 2.0 These problems make me question why anyone is even considering the device. Maybe I am missing something.

Hope to see one in the future.

Good Luck,

Rich



Ben Nuttall says:

4th Feb 2015 at 7:03 pm

Things you're missing:

- Replacement of 1x 700MHz ARMv6 core with 4x 900MHz ARMv7 cores
- Double RAM to 1GB
- Opportunity to run new wealth of operating systems including Windows 10 IoT, Ubuntu Snappy Core and more
- Complete backwards compatibility with previous models
- Same price as previous models

Would have have been happier for Raspberry Pi 2 to have a different form factor, different chip, be incompatible with previous models, be more expensive and have single core and the same RAM, but have better ethernet and USB? There are other boards that tick all those boxes.

We care more about stability for our education users than the introduction of faster ports.



malcolm newton says:

4th Feb 2015 at 7:16 pm

n

The Pi B+ is just too slow the Pi 2

hopefully should be better for development.



Daniel says:

4th Feb 2015 at 8:21 pm

I've got my new Pi 2 today and noticed that while the B+ model features the crossed out Pb symbol, the new Pi does not. Does that mean it is not lead free?



Liz Upton says:

4th Feb 2015 at 8:51 pm

It's lead-free – there'd be zero chance we'd be allowed to sell it if it wasn't! Those other symbols (CE, ROHS etc) all cover lead as one of the hazardous materials that *isn't* in the Pi.



MOB says:

4th Feb 2015 at 8:50 pm

Yes, I was thinking the same. Also, people who use their Pi:s for monitoring applications that doesn't require 4xARMv7 could buy used Pi:s from Schools & CoderDojos where speed matters.

I just picked one up at micro center! I did not expect to see it there. I had one on order with element 14. be aware that this is a non-cancel item! I could not believe that .. I still do not have a ship date for the item and yet I can't cancel the order. The sales rep said she would try and get it cancelled .. I realize you don't want to get in any sort of conflict with your distributor but this was my experience .. hopefully they will cancel it..

-don
cleveland, ohio



Stephen says:

4th Feb 2015 at 9:28 pm

Superb news, mine's on order :D
Had a Pi B for over a year and it's awesome! Will the ARMv7 architecture now enable flash player in Raspbian web browsers?
I pray the answer is the yes I so crave! ty ;)



Ben Nuttall says:

4th Feb 2015 at 9:53 pm

Adobe dropped ARM support for Flash some time ago, so we won't ever see it. Flash is dead.



Stephen says:

4th Feb 2015 at 9:36 pm

I



Andy Edwards says:

4th Feb 2015 at 9:41 pm

Why have I now got 4 little raspberries at the top of my loading screen?



Ben Nuttall says:

4th Feb 2015 at 9:52 pm

One per core :)
It's a Linux thing – usually four tux icons



don isenstadt says:

4th Feb 2015 at 9:48 pm

fyi .. strike my comment ... they cancelled...



Slobodan says:

4th Feb 2015 at 9:53 pm

I remember days when Raspberrypi was intended for children around the world who did not have a pc, but thay have a old tv so they could connect a raspberry pi via s-video connector to a tv, today with a new raspberrypi thay cannot do that, what a shame :)



Ben Nuttall says:

4th Feb 2015 at 9:58 pm

Are you referring to the lack of a composite video port? Because it's still there! It's bundled with the audio jack.

This was done in the move to [Raspberry Pi B+](#)



Liz Upton says:

4th Feb 2015 at 10:18 pm

I am delighted to be able to tell you you're wrong: you can still use a composite TV. The connector has just moved to the 3.5mm audio jack. [This post](#) on Raspberry Pi Spy explains what's going on.

Any chance of a trade in scheme for older models like the B?

Maybe third world countries would be interested in several model B's for the price of a new Pi 2.



Ben Nuttall says:

4th Feb 2015 at 10:16 pm

It's really cheap. Why don't you buy a new one and donate your old one to the third world? You could start the scheme yourself.



R. Werner says:

4th Feb 2015 at 10:05 pm

Sorry you are all wrong

Python 2.7.8 (default, Jun 30 2014, 16:03:49) [MSC v.1500 32 bit (Intel)] on win32

Type "copyright", "credits" or "license()" for more information.

```
>>> 1^2
```

```
3
```



Ben Nuttall says:

4th Feb 2015 at 10:14 pm

Hehe

$x \wedge y$

Does a "bitwise exclusive or". Each bit of the output is the same as the corresponding bit in x if that bit in y is 0, and it's the complement of the bit in x if that bit in y is 1.

<https://wiki.python.org/moin/BitwiseOperators>



xkomczax says:

4th Feb 2015 at 10:12 pm

MW: With Gbit ethernet or Arduino compatibility?

Anyway, good step for RPi



Pi lover says:

4th Feb 2015 at 10:37 pm

Where can I buy one?



jonty says:

4th Feb 2015 at 11:40 pm

I am so happy to hear this!! What amazing news.

After playing with my pi for a few months even getting sonic pi working, I found I needed a new tv recorder. So it is happily running tvheadend and connected to a 1tb drive is working great. Crashes about once a week for unknown reasons but really i cannot complain – it even managed to record a program whilst i was using the Pi to playback a movie – epic.

But I worry I am asking too much of it – so a quad core 900mhz machine is just awesome. I reckon I could then have several connections watching video as well as recording tv.

What on earth is next for \$35???



Dave says:

4th Feb 2015 at 11:53 pm

worth noting that over here in the uk it is drastically more expensive!
the only retailer i could find with it available is maplins they want £39.99 (about \$60!)
way more then the \$35 + vat

Maplin's a bit of an outlier – they mark up very heavily. Try The Pi Hut, Pimoroni, Mod My Pi – or the main distributors, RS and Farnell.



Brett Parker says:

5th Feb 2015 at 12:07 am

Maybe you're missing that it's cheaper than nearly everything else for ARMv7, it's quad core, and that it takes up no space at all (or, really, electrical power.) It's a lovely dev board for enthusiasts rather than for cynics.



Nick says:

5th Feb 2015 at 5:50 am

Will the datasheet for the SoC (BCM2836) will ever be released?



Steve Walters says:

5th Feb 2015 at 6:04 am

Wonderful addition to the Raspberry Pi family, I'm looking forward to adding the new Pi2 to my Pi family. I'm sure the Raspberry Pi staff here "I love your system, but I just wish it had ..." My "wish it had" is some type of built-in eMMC storage and/or a socket to accept some type of eMMC storage module. I certainly concede that adding this may cause the build cost to push the retail price over \$35 and/or push the power targets over their respective max targets, so I will continue to wish. In the meantime, the Pi2 will be a wonderful addition.



arun says:

5th Feb 2015 at 7:38 am

I have stock here:<http://www.greenindiaelectronics.com/raspberry-pi-2-modb-1gb>



Lorenzo says:

5th Feb 2015 at 9:39 am

I have RaspiCam for old RaspberryPi model B. Is compatible with this new board?



Ben Nuttall says:

5th Feb 2015 at 10:56 am

s

e



KayodeMiller says:

5th Feb 2015 at 10:13 am

Oh, No.
I bought a **class B**.
Now I need to buy another one.
哦不
还得再买一个（现在只有一个B）



EmilianoP says:

5th Feb 2015 at 11:57 am

It is possible to connect the Raspberry Pi on my DAC? There is compatibility or it's only with HIFIBerry? Does it work with foobar or Jriver? Thanks



alex76gr says:

5th Feb 2015 at 2:22 pm

Great news!
Way to go for the developing team.
I hope one day to see Amiga OS running on this sweet thing.

The next generation should be named the Raspberry Pi 3.14 or alternatively, the Raspberry Pi 3 model 14 lol.



Barty says:

5th Feb 2015 at 3:24 pm

So it looks like all USB problems haven't been addressed if only core has been updated :(



Liz Upton says:

5th Feb 2015 at 3:27 pm

Catch up – they were all addressed about two years ago!



chris satterwhite says:

5th Feb 2015 at 4:30 pm

Does the new board have a RTC? Because I am noticing more and more how helpful that would be, and makes the \$10-15 price difference between the Hummingboard more worth it per device.



Liz Upton says:

5th Feb 2015 at 4:42 pm

It doesn't, but there are several add-ons out there – this one from The Pi Hut is only £5.
<http://thepihut.com/products/mini-rtc-module-for-raspberry-pi>



CJ OBrien says:

5th Feb 2015 at 4:43 pm

I looked through all these comments. Does anyone sell this new PI 2 in the USA yet or free shipping to the USA? Thanks.
OB



Liz Upton says:

5th Feb 2015 at 4:47 pm

Yes: Newark and Allied are the US names of our two distributors, and Adafruit, Microcenter and many other stores have it too.



diego says:

5th Feb 2015 at 4:57 pm

Great news! sadly its on sale at \$49.95 :(



Shamasis Bhattacharya says:

5th Feb 2015 at 5:27 pm

Model B+ had addressed these issues to a great extent. I've personally run comparative tests and observed SD card corruption not being a problem with B+.



Ravin says:

5th Feb 2015 at 7:11 pm

Is there anywhere from which I can order to the United States?



ukzscone says:

5th Feb 2015 at 7:22 pm

some (most?) Microcenters seem to have a few in stock. there were some in the NY stores earlier

Thank you Liz Upton. I called Microcenter and they just sold out this morning. The other two sites have several thousand on order with no stock. Guess I have to wait. MC is probably the best bet at this point to buy in the USA.

CJ



Ray says:

5th Feb 2015 at 8:15 pm

Raspberry Pi 2 is now on sale for \$35??? Where? Everyplace I have looked is selling them for around \$50 US.



Juan says:

5th Feb 2015 at 8:26 pm

USLINK FOR PURCHASE

<http://www.element14.com/community/community/raspberry-pi/raspberrypi2>



barny says:

5th Feb 2015 at 10:59 pm

Having microsoft on board is a massive game changer. The raspberry pi will be the first arm based computer with broad appeal that runs windows. The only other was the microsoft surface running windows RT, but that was a disaster. This will generate a real demand for arm compatible mainstream software such as office and developer studio – which is why i reckon microsoft are interested in the pi.



Hayden James says:

5th Feb 2015 at 11:11 pm

Whats the best place to buy online (US) for under \$50 that "ships" in a day or 2 the most?



Joe says:

6th Feb 2015 at 12:23 am

Great! I have ordered one. Now, where's the touchscreen accessory?



AndrewS says:

6th Feb 2015 at 1:08 am

I've not tried either of these myself, but maybe you'll find them interesting?

<https://www.google.co.uk/search?q=raspberry+pi+uae>

<https://www.google.co.uk/search?q=raspberry+pi+aros>



Dirk says:

6th Feb 2015 at 1:13 am

Incase someone follows this, I was still in time to order Raspberry Pi 2's and sending back the B+'s seems to have worked as well, so I bet we'll have some happy faces and a -not literally- smoking fast Mathematica workshop next week...
Really lucked out on this one!



Fei says:

6th Feb 2015 at 3:20 am

Does it support OpenCL?



Tetsu says:

6th Feb 2015 at 5:30 am

i was wondering will it be able to emulate psx without the lag or frame distortions

Hopefully the pi 3 will launch next year with an ARM V8 chip.



Andyj says:

6th Feb 2015 at 11:23 am

I have openelec on my B+.. It's all I need. No speed or memory issues, runs 24-7. Its staying.

However, RTL-SDR guys like me will be cooking tea and washing up afterwards. So their wives will lend them the money for a PiB+ 2.

We seriously needed the oomph.

Thank you guys :)



Slobodan says:

6th Feb 2015 at 12:09 pm

Ohthats great we have composite video, cable is a bit of trouble but nothig that cant be "easy" found :) Cheers



Niklas says:

6th Feb 2015 at 1:40 pm

Hey i have one question. When I have a case for the b+ model cn i use this for the 2?



Chari Karipidis says:

6th Feb 2015 at 2:17 pm

y!

I have a question regarding the new PI.

I own the first one and I love it, I use it with XBMC but it cannot play high profile 5 or higher video files.

What I was wondering was if this version will be able to play these videos.

Thanks!



James Hughes says:

6th Feb 2015 at 4:02 pm

There is no difference to the video playing codecs.



Liz Upton says:

6th Feb 2015 at 6:26 pm

I'm afraid you will need to buy new ones for your new device, though.



Mike Ciholas says:

6th Feb 2015 at 3:17 pm

"VideoCore IV 3d is the only publicly documented 3d graphics core for ARM-based SoCs, and we want to make Raspberry Pi more open over time, not less."

Then why do you deal with Broadcom that won't release the data on the BCM2836 to the public?

It would seem the philosophy espoused above would lead to a vendor who isn't so hostile to to folks looking to find out more about their chips.

I was hoping that the success of Rasp Pi would provide leverage to force Broadcom to release datasheets, or that you would select a different chip from a more open vendor among the many available.

Alas, neither happened. Sad.



James Hughes says:

6th Feb 2015 at 4:01 pm

Presumably you are completely unaware of the connection between Broadcom and the Foundation – without Brcm, the Pi would never have existed. It's an interesting story,

the Pi would not be as good a device as it is today.

It also happens that the lack of low level GPU documentation (which is actually commonplace in the arena) has not really impacted the Pi sales, or its efforts in the education sector, at all. And moving to a different chip would break every single Raspberry Pi specific project out there, which is clearly not something that the Foundation is willing to do.

Finally, 4.5M units sold, pretty good, but not enough to make Broadcom open up completely – they are used to sales of much higher volumes than that.



Liz Upton says:

6th Feb 2015 at 6:53 pm

<http://anholt.livejournal.com/44239.html>



Ed Swierk says:

6th Feb 2015 at 3:38 pm

Amen, brother.

I thought I'd lucked out when my Raspberry Pi 2 Model B shipped from Maker Shed. Only when I saw the 2012 printed on the PCB did I realize I'd inadvertently ordered a Raspberry Pi Model B Revision 2.

Should we expect the next completely different product to be called Raspberry Pi Prime Plus 2 Model B+ Revision 2?

The letter C and the number 3 are anxiously awaiting their turn!



Joe says:

6th Feb 2015 at 6:22 pm

Awesome! Should easily break 1 GHz. Huge improvement. Biggest problem I had with the Model B was the anemic processor. Worked OK for coding, but just not enough umph to run an OS and processes comfortably. This is a massive step forward.



mahjongg says:

6th Feb 2015 at 6:32 pm

s.



Jonah says:

6th Feb 2015 at 9:34 pm

Isthere a RasPi foundation approved overclock feature in raspi-config or something that is manual/potentially voids warranty?



Sam Lau says:

6th Feb 2015 at 10:07 pm

Bought A, B, then 4xB+ last August. I ordered 2xPi 2 as soon as I read about it from element 14. The package arrived on Thurs. I started playing with Pi 2 yesterday. Got a 1gb micro sd to boot the Pi 2 using a 2 TB desktop usb hard disk GPT formatted. Everything working beautifully and very fast. Very impressed. The 1gb ram will make a huge difference on some of the memory hog applications. Great job! Excellent effort, results speak for itself.



Stijn says:

6th Feb 2015 at 10:30 pm

I would LOVE to find a website that actually sells the Pi 2 for \$35 and ships it affordably to Belgium.

AdaFruit charges \$45 (+/- €40) and I have no clue on shipping prices as they're out of stock. Pi Supply charges £30 + £10 chipping (+/- €53).



Mark B says:

7th Feb 2015 at 4:36 am

Thanks.



modular says:

7th Feb 2015 at 5:55 am

doyou guys keep supporting the debian mini-type image updating for the raspi 2?
because we like the debian small and quick boot,it is very important for an industrial case



Peter says:

7th Feb 2015 at 4:09 pm

\$35, where?
The Hungarian reseller sells over \$60 + shipping fee.



Mig says:

7th Feb 2015 at 5:01 pm

Isthe HDMI OUTPUT still old v1.3? 1080p
I need 4k ultraHD output at 4k 30fps (HDMI 1.4) or 4k 60fps (HDMI 2.0).
Pi 2 sounds just great... just ordered one!!! :)



Gordon says:

7th Feb 2015 at 5:43 pm

Ifyou want a small and quick booting image, how about using a buildroot instead?
Boots in about 5 seconds, and can easily be set up to never write to the SD card and therefore bombproof
I should get around sometime to putting some documentation together on how to get it working, will do soon since I need to do more work on it soon
Gordon



Linger says:

7th Feb 2015 at 7:24 pm

What is windows for iot in arm compatible with?



hydn says:

7th Feb 2015 at 8:14 pm

Yes 2 overclocking: <http://haydenjames.io/raspberry-pi-2-overclock/>
But it's already much much faster than the B+.



f2point8 says:

7th Feb 2015 at 9:13 pm

Anyone know if the audio quality from the stereo jack is better than previous models?
I've used these as Airplay speakers, and have had to buy USB audio cards.



Dallas Clarke says:

7th Feb 2015 at 10:17 pm

Westill need audio in for a mic, and remove the Ethernet and place with an on board wifi.
Then we might be able to deploy the Pi in real life applications.



Liz Upton says:

7th Feb 2015 at 10:29 pm

Three seconds on Google found me a USB microphone for £3, and a wifi dongle will set you back about the same. Your "real world applications" thing – well, it's a bit *silly*. I direct you to Google again – or if you're really lazy, just have a look around the website you're currently on.

Hiall,

What about Arch linux? Is it discontinued?



Liz Upton says:

8th Feb 2015 at 1:47 pm

No; head over to the forums and do a search to learn more. The folks at Arch weren't happy giving us an iso (which we needed to offer a download here and to be consistent with other distros), but would only allow us to use a tarball, which isn't really helpful for the majority of users, so you'll have to visit their site for it instead.



Axel says:

8th Feb 2015 at 7:34 am

Congrats to the fondation, you have done a fantastic job !
I ordered a pi from from the second batch. I guess i should call it a chinese model A raspberry pi.
I ordered it the 3 april and received it the 29th june.
I had to wait and come here to watch every news.
You made the wait enjoyable, sharing the CE redpaper, the upside down ethernet mistake and the so many hiccup along the way to my door.
Liz you did a fantastic job being so transparent about every problem you met to deliver the pi while at the same time being so cheerfull. I never felt angry during the whole process, just excited. When i received my pi i received the coolest micro-computer ever but also a great raspberry pi / element 14 t-shirt that i proudly wear.

This time i ordered the pi a few minutes after the annoucement and received it 2 days later !
You have come a long way.
Congrats to you and everybody involved in the project. It's fantastic.
The pi 2 is so great !



Liz Upton says:

8th Feb 2015 at 1:44 pm

Thanks Axel – I hope you enjoy your Pi 2 as much as you did the 2012 model!



Chris Golden says:

8th Feb 2015 at 1:05 pm

Still only has a 100Mbit Ethernet port right?



sirkope says:

8th Feb 2015 at 2:43 pm

Dear Liz,

After my post I did a research in the forum, and found their website, but previously this distro could be found on the download section :)



Androidian says:

8th Feb 2015 at 3:35 pm

Since the Nic is a USB internal device, simply add another USB Nic adapter to it. I'm doing that for \$12 from a vendor on ebay.
Try running the IPFire arm image and you will have a really nice firewall once you figure out how to store the logs without burning up the SD card. Also recommend using the heat sink kits with it since it tends to keep the processor busy looking after you.



Valeriy says:

9th Feb 2015 at 5:38 am

Everyone saw what happened to Nokia from friendship with Microsoft. I'd be afraid of such cooperation.

It's not really cooperation, more like the Foundation answering a few questions MS have whilst MS port the code. Not much Foundation input at all.



Axel says:

9th Feb 2015 at 6:09 am

Even more ! The extra CPU power and RAM make him a very potent media station. The old one i will keep trying, to install openmedia vault on it in order to transform it into a NAS. One think that i love about the pi is how it helps me to recycle old stuff. I had everything already at home for the new pi. I'm just looking for a new case now. I might have found a somehow
[easy DYIish case for my raspberry pi 2](#)



Chris says:

9th Feb 2015 at 10:56 am

Nice performance upgrade, but you should think on IO – and GPU performance too. I'm waiting on Raspberry Pi 3 with support for eMMC-Moduls (like ODROID) and HEVC/H.265 codec! And a 3.5mm audio jack with 4 pins (or seperate 3 pin audio jack) for mic support would also be nice! And of course power and reset buttons! And 1Gbit ethernet... and... and... and... Wow, much potential. :-)



jon says:

9th Feb 2015 at 12:20 pm

The SD corruption is not just on overclocked units or certain types of card. I have bought dozens of Pi's and tried numerous branded/unbranded and different classes of card. Some fail sooner, some later but they all corrupt the card in the end. If it's not fixed on the new model that is bad. Never had any problems with the performance of the B. It happily plays HD video with the CODEC keys in and that is about as intense as it gets. The 2 major problems were and apparently still are no WOL and SD corruption.



Alain says:

9th Feb 2015 at 10:21 pm

« On sale at 35\$ » ???

Just tell me where I can get it for 35\$! Every place I looked, the sell it for way more \$\$\$.

Looks like some retailers are taking advantage of the new buzz !



James Hughes says:

10th Feb 2015 at 9:09 am

It's £35 + tax + shipping. And has always been.



Karl says:

9th Feb 2015 at 11:06 pm

Where Can I buy this for \$35 bucks?



James Hughes says:

10th Feb 2015 at 9:09 am

\$35 + tax + shipping...most places.



Alexandre-Xavier says:

10th Feb 2015 at 3:06 am

What are the advantages of the Raspberry Pi 2 over the ODROID C1 ? Both are nice, but I don't know how they compare.

I can't wait until the Raspberry Pi 3 comes out!



Tom says:

10th Feb 2015 at 6:21 am

...n really this is not achieved.... I wonder how people will react when someone will shout: Rolex! Rolex on sale now! at 35\$.... once you click buy now button, you get to paid 55\$ instead of 35\$ (and this will be the price of the item itself without shipping costs).



James Hughes says:

10th Feb 2015 at 9:06 am

Ashas been explained many times in the 3 years that the Pi has been on sale at \$35, that \$35 excludes tax and shipping because the Pi is sold worldwide, so it's impossible to indicate the prices for every single country as they all have different tax rates.



Paul says:

10th Feb 2015 at 12:23 pm

I can't wait for the new Raspberry Pi with gigabit lan and usb3 comming late august this year.

Why do I know this, you ask? Because they deny having these plans. That is the one thing I learned from the discussion about 6 month ago, when they released the b+.

And one thing is for certain: If I they lie to you once and get away with it (or are even praised for it by their fanboys), they'll do it again for certain.

One other reason they can do so is probably because they dominate the market of these small computers with impressive numbers sold. And many people seems to like it, but f... M\$, of course.



James Hughes says:

10th Feb 2015 at 12:54 pm

It's going to be at least September.

And who is lying? Yes, it's you!

Calm down, keep taking the pills.



Ruidoquedito says:

10th Feb 2015 at 3:18 pm

Fantástica noticia !!



User007 says:

10th Feb 2015 at 7:06 pm

When is expected Kali Linux version for the new Raspberry Pi 2? The previous Raspberry Pi Kali Linux version does not work on Raspberry Pi 2.

Are there any possibilities to use Microsoft Skype or Google Hangouts on Raspberry Pi 2? They both are available for Linux via Internet browser plugins.



Richard says:

10th Feb 2015 at 11:11 pm

Inthe USA Newark will have 4,500 for shipment on Feb 23. Cost is about \$45 with tax and shipping. Also Allied Electronics will have stock. Order and wait.



Stephen Fleming says:

11th Feb 2015 at 1:03 am

I wonder why the Raspberry Pi 2 still uses LPDDR2 RAM rather than LPDDR3? It seems to me that DDR3 memory would be faster, especially for video.



James Hughes says:

11th Feb 2015 at 8:44 am

Chip only supports DDR2.

After installing a brand new NOOBS card purchased directly from the foundation, installing Raspbian and booting on the B+, I then ran
 sudo apt-get update
 sudo apt-get upgrade
 sudo apt-get dist-upgrade
 sudo rpi-update.

Moved the card into the RPi 2 and it sticks on the color splash screen. Power is good. It seems that info about RPi 2 boot problems is scattered around the forums and comments. Can someone direct me to a definitive source of info on getting the RPi 2 booted? I want to see this thing rock and roll!

Thanks Foundation and supporters!



SomeOldGuy says:

11th Feb 2015 at 7:48 am

It seems that the extra partition on the NOOBS card was my issue in getting the RPi 2 to boot. After putting the latest Raspbian image on the card, the RPi 2 is indeed now rocking the house. YAY!



sirkope says:

11th Feb 2015 at 9:46 am

Hiall,
 MagPi issue 30 is out now, there's an article about RPi 2 in it, from Ian McAlpine.

I've quote a part about Windows 10 on RPi2

"There has been some speculation about just how capable Windows 10 will be on the Raspberry Pi 2. There are several Windows 10 IoT derivatives including "Mobile" for phones, low-end tablets, etc. and "Athens" for resource constrained devices. I have a US\$99 tablet with an Intel Atom quad core CPU and 1 GB RAM. It runs the FULL version of Windows 8.1 very well.

Steve Teixeira from Microsoft has commented that they are running "real" Windows 10 on the Raspberry Pi 2, but as it is optimised for the Raspberry Pi 2 it does not include the full Windows experience. Time will reveal what that actually means but, given the positive experience I have with my cheap tablet, I have no doubt that Windows 10 on the Raspberry Pi 2 will be equally as good. It will certainly be interesting to explore Visual Studio and program the GPIO using Windows development tools."

Any comments from the foundation? Liz? Ebed? Does it mean we could build our own Windows 10 tablet based on RPi2?

It could be awesome...



Mike says:

11th Feb 2015 at 11:40 am

This is GREAT news!
 I'm new to the raspberry Pi concept and just bought a magazine here in the Netherlands for introducing the RPi to a beginner. So..I wanted to buy a Pi. And now there is a complete NEW version!
 Only one question: Can I hook up all the addons (like a 7" touch screen) designed for the RPi 1 to the RPi 2?
 Keep up the good stuff!



Tony says:

11th Feb 2015 at 12:55 pm

I can already see the future few years down the road, microsoft buying raspberry pi and killing the project....
 microsoft was never an open source supporter.

I can see the future few years down the road where MS don't buy the Raspberry Pi

Foundation, and the project continues quite happily.

Mainly because the Foundation is a charity, doesn't have shareholders, and is therefore not a target that can be bought.



Tony says:

11th Feb 2015 at 1:04 pm

I've been trying to get Raspberry Pi B+ for a while and finally found a supplier where I live (Lebanon) who distributes RS products, they are asking over 75\$ + tax for the B+ and 45\$ + tax for the Pi Noir Camera and now they don't know if and when they will have B+ or Pi2 (actually they didn't know about Pi2 at all).

do you guys know an online supplier/Distributor that ships to Lebanon? or where can I get Pi products?

Thanks a lot



JohnM says:

12th Feb 2015 at 1:52 am

Sure would be cool to have OpenCL support.



Spamm00r says:

12th Feb 2015 at 9:57 am

What a rip off.

I waited months for a new raspberry model specifically to have better performance and finally bought Model B+ In August when it was available. I trusted you and believed that the next model would not be available in at least a couple of years.

But now a even better model is released only 6 months after the B+ is released. I would have waited for Model 2 if it was made clear that the model 2 would be arriving within months.

Now I'm sitting on a B+ and Model 2 offers Windows 10, which is a killer feature for me. And I will be forced to switch.

Why did you guys do this to us? You guys saw it coming but fooled us into buying a stepover model which you will probably stop supporting in days.

Does "trust" mean anything to you?



James Hughes says:

12th Feb 2015 at 10:40 am

Hmm. You paid \$35 (not exactly a huge amount of money), and got EXACTLY what you paid for. How is that being ripped off? Model change all the time. If you were always waiting for the next model you would never buy anything.

Note Win10 is NOT the desktop version, so probably not what you think it is.



sirkope says:

12th Feb 2015 at 12:40 pm

Wine has a Debian version, but I couldn't intall it to RPi2 Would it changed in the future?



Butch Maddog says:

12th Feb 2015 at 3:14 pm

\$35? Wrong.

\$55 at amazon by Raspberry Pi itself. They advertise \$35, all of their partners are out of stock at the \$35. BUT you can get one directly from the manufacturer for \$55! Price Gouging at it's best.

Raspberry PiTM 2 Model B Project Board – 1GB RAM – 900MHz Quad-Core CPU

by Raspberry Pi

http://www.amazon.com/Raspberry-PiTM-Model-Project-Board/dp/B00T36EU4E/ref=sr_1_1?ie=UTF8&qid=1423752541&sr=8-1&keywords=raspberrypi+2

The Raspberry Pi Foundation does not have control over the sale price of products sold by third parties. We license the sale to element14 and RS Components and third parties buy from them.

You can buy from the official distributors for \$35 plus local taxes and although they may be out of stock we are manufacturing 20,000 units per day so they will be available again soon.

The product you linked to says "by Raspberry Pi" but is not sold by us. It means the product is made by Raspberry Pi.



Butch Maddog says:

12th Feb 2015 at 3:47 pm

Apologies. Thank you for the clarification.



Ajira says:

12th Feb 2015 at 8:13 pm

This is awesome !! I've been using Raspberry Pi B as a Node.js Server. It powers several Network tools on my website:

all day ping, traceroute, mac address lookup vendor etc.

Love It!! Can't wait to get my hands on the new one.



LeLoup says:

13th Feb 2015 at 4:46 am

It seems that certain entities have purchased large quantities, to stock up and drive the price up.

Is it possible to put a restriction on quantity per address please?

Thanks!



James Hughes says:

13th Feb 2015 at 9:19 am

That's not really how it works. Some companies (resellers) buy in bulk, but an awful lot of Pi2 have been sold to end users as well. 20k are being made per day, so you should be able to buy from the main sellers (RS, Farnell) at the standard price pretty quickly. I'd suggest staying away from people trying to increase the price, and wait for a week or two until you can get one at the proper price.



user007 says:

13th Feb 2015 at 8:20 am

I may report that Kali Linux is fully functional on Raspberry Pi 2!

I used the previous Kali Linux image kali-1.0.9-rpi.img.xz (from <https://www.offensive-security.com/kali-linux-vmware-arm-image-download/>).

It is only necessary from Raspbian (using an USB SD card reader) to replace the Kali Linux /boot folder with the Raspbian /boot folder and to copy the latest Raspbian /lib/modules:

```
sudo cp -r /lib/modules/3.18.6.v7+ media/xxxx/lib/modules
```

That is all!



Rahul Roy says:

13th Feb 2015 at 10:35 am

How to use GPS in the device?



James Hughes says:

13th Feb 2015 at 3:32 pm

Please post technical support questions on the forum.



corey says:

13th Feb 2015 at 6:53 pm



James Hughes says:

14th Feb 2015 at 12:52 pm

The cases are the same,. If it says Pi2 then it should be a Pi2.



John says:

14th Feb 2015 at 12:30 am

I received a Pi 2 in the mail today, and it says "Made in PRC". What is going on here? I only purchased because of reassurance by Ben Nuttall. This was shipped to the US, so I should have received a UK model.



James Hughes says:

14th Feb 2015 at 12:51 pm

Inorder to keep waiting times down, **some** Pi's destined for the USA and that neck of the wood have been made in China. All European Pi's are made in the UK.



Tim Irish says:

14th Feb 2015 at 8:18 am

<http://www.mcmelectronics.com/product/83-16530>
has them listed as in stock for \$35 + shipping



Philippe says:

14th Feb 2015 at 12:57 pm

A version with a Nvidia Tegra X1 would be the dream ...

<http://www.nvidia.com/object/tegra-x1-processor.html>



John says:

15th Feb 2015 at 1:50 am

I just purchased from Element 14/Newark, and my Pi 2 is made in PRC. Where can US customers purchase the models made in the UK?



James Hughes says:

16th Feb 2015 at 10:31 am

Once the initial demand dies down there will be no need for Chinese made boards (they are only available because the Sony factory in UK cannot make them fast enough – they are currently making 20k per day).



Szymon Życiński says:

15th Feb 2015 at 7:45 am

Isthis a bug or the feature of new Pi?

While the old one (B) could be powered up via usb port, pi2 needs power in microusb jack, while later if you unplug it, pi2 will remain powered up via usb port.



y0rt-x says:

15th Feb 2015 at 3:59 pm

#WhenTrollingGoesWrong



Matt says:

16th Feb 2015 at 3:12 am

Hello, does anyone know if this will help the hdmi input conundrum? I need to get an hdmi input to stream as real time wirelessly from a gopro to a iPad/monitor/laptop? Anyone know how to accomplish this or if the new pi will help?

Thanks in advance!

Matt

Nodifference. There is no HDMI input on the Pi. It would be a very expensive thing to add.



Pelican says:

16th Feb 2015 at 4:31 am

I ordered RP2 from RS on the same day as it announced and still got nothing. The site said 1-3 days delivery time. Now, on the RS website says it will be available after 9th of March.
It's ridiculous...



Marek says:

16th Feb 2015 at 8:26 am

Hi, just received my RPi 2 to replace my RPi B. I ordered it from Element14 and to my surprise, it no longer says 'made in the UK' but it says 'made in PRC' is that correct, or did I get some Chinese knock off??

Another thing, I've been using an USB hub that also powered the RPi B via the backfeed, but it seems like that doesn't work anymore, is that normal, or am I just doing something wrong?

Thanks



Marek says:

16th Feb 2015 at 8:28 am

Having the same issue, can't power it from the USB hub anymore :(



Liz Upton says:

16th Feb 2015 at 11:05 am

Back-powering was removed last year when we made the B+ – it was only there because the power management wasn't great on the B, and it didn't *really* give you enough power for most tasks. It went in the B+ a consequence of improving the power control.



Marek says:

17th Feb 2015 at 4:32 am

Great, at least I know it's normal now :)

Do you know about the 'made in PRC'?

Thanks



James Hughes says:

17th Feb 2015 at 10:10 am

Because of the high demand, some Pi2's destined for places outside Europe were made in PRC. Once demand dies down, its likely that al production will be done at the Sony factory in Wales, UK. They are currently making 20k a day, which isn't enough..



none says:

17th Feb 2015 at 4:38 am

Are there any plans to introduce the "suspend to memory" sleep mode?



James Hughes says:

17th Feb 2015 at 10:07 am

Not that I am aware of.



Jerry says:

18th Feb 2015 at 8:52 pm

I would like to buy a Raspberry PI, but im from Guatemala, any idea of how can I buy from here?

**Sebastian** says:

19th Feb 2015 at 1:13 am

Alguna posibilidad de compra en argentina?
Me interesa mucho el producto

**Sebastian** says:

19th Feb 2015 at 1:16 am

Any chance to get in Argentina ? I very interested in the product.
Thank you.

**Shubham Bhattacharya** says:

19th Feb 2015 at 6:42 am

Its an ossm stuff. . I have used the B+ model and now want to work out something new in this new model. . can you please tell me where can I find it in india please post the link of the site if possible. Thanks in advance :)

**Vishaal** says:

19th Feb 2015 at 12:42 pm

Hello, I wanted to know if the old camera module would be compatible with the Raspberry Pi 2?

I know this is probably a very noob question but, sorry, I'm new to this :(

**Liz Upton** says:

19th Feb 2015 at 12:45 pm

Yes, totally compatible.

**pixelriffic** says:

19th Feb 2015 at 4:22 pm

I am a B+ owner, and a big fan. It makes me ill to see so many thugs in the USA buying up supply and selling them for twice the price. Please do not support these low brow scumbags. Supply will catch up sooner or later.

**Molino** says:

20th Feb 2015 at 7:07 pm

Well I bought a wifi dongle that never worked in openelec (I googled a lot), and making it work in raspbmc was a pain.

**Hapi** says:

20th Feb 2015 at 10:26 pm

Can someone tell me please where can I buy Raspberry Pi?
Thanks,

**sean007** says:

21st Feb 2015 at 10:35 pm

I recently purchased a Raspberry 2, but it did not work on my monitor, or TV and would not even see the mini 64 GB SD card. So, I was forced to return both. Is there a known fault on this model ? As I should have been able to just replace my existing Pi B, with the Pi 2.

**Liz Upton** says:

21st Feb 2015 at 10:45 pm

No, there is no known fault; and they're all tested before they leave the factory, so we know they work. Did you try going through the troubleshooting tips on the forum?

Really wish there was an upgrade to the Ethernet and USB. Data transfer rate to any USB 2.0 connect drive is to slow over a 10/100 connection.



David Verc says:

22nd Feb 2015 at 8:08 pm

I'm interested by the Raspberry Pi 2, to use it as a private web server (debian distro).
I found the maximum SD card size would be 32GB for SDHC.
For more (64 or 128GB) you need to get a SDXC card.
Is the SD card reader compatible ?
If not, is it possible install the OS onto an external hard drive plugged in the USB port ? If so, would you get a loss in performance due to the access time (USB 2 I believe)?



James Hughes says:

23rd Feb 2015 at 9:25 am

Please check the forums for answers to questions like this.



Chris says:

22nd Feb 2015 at 10:33 pm

Can this play composite video stock (yellow cord) or do i need to purchase new HDMI capable monitors?



Liz Upton says:

23rd Feb 2015 at 10:48 am

Yes, it can – composite comes out of the 3.5mm jack.



Rahul says:

24th Feb 2015 at 11:39 am

I would like to know that windows 10 is free only for developers or for everyone?



James Hughes says:

24th Feb 2015 at 12:28 pm

I believe Microsoft say it will be free to makers, but be aware this isn't desktop Windows 10, but the IoT version.



Rahul says:

24th Feb 2015 at 1:56 pm

What is IoT version, will it run/execute .EXE or desktop apps?



Lord Rybec says:

24th Feb 2015 at 6:23 pm

Wait, what? Who wants to deal with the hassle of Linux? I use Linux because I don't want to deal with the hassle of Windows! If you can't be bothered to learn Linux, own it. Don't bash the OS just because you can't (or won't) handle it.

(Just for the record, I have a great deal of experience with both, and I only use Windows for games, because it is much more complicated to do many things in Windows than in Linux.)



Pete says:

24th Feb 2015 at 6:50 pm

Raspberry pi B2 ++ ? hope so! however 10/100 USB problems are only a problem for me when under heavy load .. I have a website running of a piB ... surprisingly nippy ... Transferring large files is a 'slow and steady' process.



Evgeniy says:

26th Feb 2015 at 6:51 am



James Hughes says:

26th Feb 2015 at 10:01 am

\$35 is ex-tax ex-postage and packing. If someone is price gouging, look around for a better offer. I hear that NewIT will send abroad for sensible amounts of money.



joy says:

26th Feb 2015 at 10:29 am

what the difference between the Pis made in UK and Pis made in China?



James Hughes says:

26th Feb 2015 at 11:22 am

They are functionally identical, just made in different places.



frostieb says:

26th Feb 2015 at 2:30 pm

Thank you for that. I laughed so hard I cried! Great summary of the comments.



amanda says:

26th Feb 2015 at 9:46 pm

First all I can say is WOW amazing work and thanks for bringing portability beyond tablets and laptops.

I was wondering if a USB splitter would allow multiple devices to run at the same time?



Liz Upton says:

26th Feb 2015 at 10:18 pm

HiAmanda

I just approved this comment about thirty seconds after approving your forum comment on the same topic! Yes, what you're referring to is a USB hub, and it'll work without you having to do anything at all: just plug it in, your keyboard and mouse (or other devices) into it, and everything will work.



Chaka Benson says:

27th Feb 2015 at 2:02 am

Same as this guy...I'm no scrub, I do this for a living, and yes I have a good power supply and a sanctioned SD card. I know these are factory tested, so I'm basically stuck. I've tried three different SD cards and *4* different power supplies...All of which work in my B+. Something ain't right!



James Hughes says:

27th Feb 2015 at 9:10 am

Please post on the forums for support.



Matt H says:

28th Feb 2015 at 8:30 pm

I explicitly asked prior to my purchasing the RPi2 whether these are made in China, and received the following response in this forum:

Ben Nuttall says:

4th Feb 2015 at 1:40 am

The Raspberry Pi is designed in Cambridge, UK by Raspberry Pi engineers and manufactured by Sony in Pencoed in Wales, UK. They say "Made in the UK" on the board. However a small proportion are manufactured on behalf of Premier Farnell in China – but these are for the Eastern markets.

I received the Raspberry Pi 2 and it says "made in PRC". I feel that I was lied to. I am either going to sell this or try to get my money back. I will never buy another Raspberry Pi product.

In what country are you? Some USA and N.American Pi's were made in China to reduce the backlog. This will stop as soon as demand can be catered for by Sony in Wales.

Note that the China Pi is exactly the same as the UK Pi, and is made to the same standard, and also that the Foundation makes the same amount of money per Pi wherever it is made, since they licence the design, rather than make them themselves.



Jim Cooper says:

1st Mar 2015 at 3:06 am

I think we all read that twice!



Ranganath says:

2nd Mar 2015 at 3:24 pm

We have ready stocks of Raspberry Pi 2 and its accessories for same day dispatch in India.

Check the link :

<https://www.crazypi.com/raspberry-pi-products/buy-raspberry-pi-2-1gb-online-India>



Pouriya Bagheri says:

2nd Mar 2015 at 6:34 pm

Hi.

A good progress

We look forward to further improvements



Naveen says:

3rd Mar 2015 at 7:16 am

Why don't we say "Made for Makers" instead of Made in UK or Made in PRC? Is there any legal things attached?



Gerardo Rizzi says:

3rd Mar 2015 at 7:55 am

Writing from raspi2 with chromium. I'm using blender, libreCAD, libreOffice and Okular. Everything fluid. Now my kids can use it like a real electronic Swiss knife.



omar says:

3rd Mar 2015 at 7:57 am

hello,

how can I buy this product here in Indonesia? Are there any reps for Raspberry Pi products? Can't wait to have one!

Thanks,

Omar



matthijs says:

3rd Mar 2015 at 5:07 pm

This is great!

I just read your article this morning and decided I needed to get one *immediately*.

Luckily I was able to get one from the local computer shop for the right price. Great product. Some serious fun computing in a case that would not even fit a moderate CPU fan. If six months from now you design a faster one I will get that one as well.

Immediately.



MrWm says:

4th Mar 2015 at 4:38 am

Windows 10?

Now will the Raspi be geared towards Python or C#?

Hopefully it's an open source version of Windows 10.

See some discussion here about delivery in various countries and about price. The situation now, after 1 month, is that you can't get one for less than £30 in uk and rs and farnell out of stock are quoting delivery end March. Even amazon is out of stock unless you pay £32.

So my point is that the \$35 delivery now headline in blog from 2nd Feb is WRONG and violates trades descriptions etc should IMO be removed. Has anyone ever bought rpi 2 for \$35? Suspect not!



Dutch_Master says:

5th Mar 2015 at 7:10 pm

An important thing many non-US residents fail to grasp is the deep resentment in the US for China and its policies and ethics. China doesn't respect (foreign) intellectual property and doesn't fight piracy of Western products, many of US origin. This in turn has led to (confirmed) job losses in the US and is thought to have significantly influenced (deepened) economic recessions in the past. A fair number of Americans have rallied on the issue and made a conscious decision never to buy from China, whether it's Chinese produce or Western products made in China (which would involve a whole range of Apple products, btw!). I'd guess Matt H. belongs to this group. Mind, IMO this group does have a valid point, but personally favour a more pragmatic approach. In essence, the Chinese Communists are abusing the American capitalist system for their political and economical benefit, as they block the vast Chinese market for full and unimpeded access from Western companies, again most of US origin.

The above borders very much on politics, but IMO it is imperative to emphasise that some visitors have genuine concerns to where their RPi (of any model) *actually* comes from.



user007 says:

7th Mar 2015 at 12:39 pm

Update:

Finally we may download the official Kali Linux image [kali-1.1.0-rpi2.img.xz](https://www.offensive-security.com/kali-linux-vmware-arm-image-download/) from <https://www.offensive-security.com/kali-linux-vmware-arm-image-download/>. It works right after extracting and placing on microSD card.

Still the Kali Linux is not optimized and the benchmark results using Nbench – BYTEmark* Native Mode Benchmark are around 60% of the Raspbian and Fedora 21 benchmarks. Nevertheless Kali Linux performance on RPi2 is OK and it is offering an impressive pentesting collection.



Purple Bob says:

7th Mar 2015 at 9:22 pm

I'm getting really tired of seeing these claims that the Pi 2 is available at \$35. For one thing IT ISN'T available for the exchange rate equivalent of \$35 in the UK. The claims that your official distributors sell it for that are an outright blatant lie. RS opened it at that price on the first for just 6 hours on the first day of trading it, then bumped the price up by nearly £4 on each unit. Element14 Farnell charge even more... and buy the time you add the shipping and VAT NOBODY in the UK can get hold of an R-Pi2 for less than about £30 to £32 at best!!

SO, your official distributors don't even sell them at that price. Your constant banging on about the price being \$35 is not only wrong it is intentionally misleading.

Why is it that a product designed in the UK manufactured in the UK and shipped in the UK is more expensive than for somebody in the USA!!! This makes no sense except that somebody is creaming money off the top! You need to take your official distributors in hand and demand that they sell at the correct RP.

Or do we have to continue to suffer the fact that we live in rip off Britain.

Best Regards,
Purple Bob.



James Hughes says:

8th Mar 2015 at 8:49 am

This has been discussed to death over the last three years. It's \$35 (converted to local currency) plus tax (whatever that may be where you are) plus postage and packing. That adds up to different amounts around the world. Note that the USA pays the same. So it is not more expensive in the UK than for example the States.

can you make a video of how to install ubuntu on youtube or tell me how



Amelia says:

8th Mar 2015 at 3:22 pm

Hi! So I would like to but one of these raspberry pies as I would like to build my own robot!!

So please could you tell me where do I buy these from! I'm from the UK so it would be great if it was in pounds not dollars thankyou please reply quickly as I a, very eager to start making a robot and could you set up a raspberry jam day near me something like in Middlesbrough or something thankyou for reading this 😊 :)



Clive Beale says:

8th Mar 2015 at 9:52 pm

<http://www.raspberrypi.org/products/>



ed says:

9th Mar 2015 at 12:37 am

strange in newark site rasp2 is out of stock. But you can find in many other sites selling for more than \$35. Appears they prefer to sell to this company than to ppl like us...



digerati says:

9th Mar 2015 at 2:34 am

i want a table that compare raspberry pi 2 specifications with raspberry pi b+.

where can i get this table?

would you make this tabel for us ?



Clive Beale says:

9th Mar 2015 at 7:56 am

http://en.wikipedia.org/wiki/Raspberry_Pi#Specifications



Artemis3 says:

10th Mar 2015 at 5:51 pm

I would also love to have a dual nic version, it would make a great home router/firewall. I particularly don't need 4 usb plugs so remove one of those and add the second nic instead.

Yes i know they are logical usb devices anyway, but its more practical and cheaper than buying another usb nic.



Martin O'Hanlon says:

13th Mar 2015 at 10:53 am

Yes I have brought 6 all for a \$35 price point (albeit in £'s).



Wolfgang says:

13th Mar 2015 at 2:36 pm

yes it is necessary to have a faster system

BUT

the "all connectors are at the same place" i not right, and where can i find some really interesting things like technical data ? what kind of sd-card do i need now ? ok, ok, i can find all at google but for professional electronic it's not ok.

so i go to google now, this site is not for me

I'm looking for Raspberry Pi 2 board with your paged dealers, but on the best, it is in backorder. I'm in Mexico City, Where can I buy it, at \$35 usd? In Mexico, some pages buy it for 80 usd or more.



Max says:

19th Mar 2015 at 3:51 pm

Anyone know if the peripheral's (such as GPIO) will remain the same. Specifically, I would like to know if the SPI Interface of the GPIO on the Raspberry Pi will remain the same, or will it be able to work at a faster sampling-rate?



Glen K4KV says:

22nd Mar 2015 at 3:07 pm

Wonderful little board!
Now, on the next revision, a number of us (ham radio enthusiasts doing high speed DSP) need some LVDS channels run out to a connector or header.
This will allow us to connect something like the LT2208 ADC.
Thanks again, good work!



Chris Blunt says:

25th Mar 2015 at 6:44 pm

How can I buy the raspberry Pi 2 for \$35?



FrankM says:

25th Mar 2015 at 9:08 pm

Windows!? For people who want their Pi to be susceptible to 10,000,000 Windows viruses? Please, why corrupt the best product in computing with the worst?



NickMon68 says:

26th Mar 2015 at 1:43 am

Ifonly RS could get my Pi2 to me, ordered on 18 Feb and still waiting..



John says:

27th Mar 2015 at 12:49 pm

@FrankM It won't run x86 Windows (this is something that needs to be clarified up front!) because it has an ARM processor, so what you're saying is entirely invalid as all the x86 Windows viruses will not run on it.



rain says:

27th Mar 2015 at 11:49 pm

2015-02-16-raspbian-wheezy.img write to micro sd card failed Error 23:Data error(cyclic redundancy check) with win32diskimager 0.7(latest tried with same erro but stop at different progress 44%,25%).

However, 2012-12-16-wheezy-raspbian.img write successful.

what is the problem?



Liz Upton says:

28th Mar 2015 at 9:47 am

You won't find technical support in these comments – please go and ask your question in the forums!



Eric Olson says:


30th Mar 2015 at 4:20 pm

Just a quick note that I managed to compile Cilkplus as part of gcc-5.0 for Raspberry Pi 2B along with the run-time library libcilkrt. Instructions how to do this are posted on the

The memory bus versus processor speed seems well balanced on the Raspberry Pi 2B and it is possible to get reasonable parallel speedup even for memory intensive computations.

 **Shahroze Tariq** says: 31st Mar 2015 at 6:50 pm

I am Computer Science student and fascinated with Raspberri Pi but living in Pakistan I can't buy it here. Can anybody help me on how to get it delivered to my house in Pakistan

 **Motaz** says: 6th Apr 2015 at 12:01 pm

That's true, but Linux could dominate this market, don't forget the 4.5 million units that use Linux only and could last forever

 **Shannon** says: 7th Apr 2015 at 12:00 am

Hi, how robust is the GPIO on the PI2? Will a Gertboard still be required to protect the board adequately?

 **Sam** says: 9th Apr 2015 at 7:22 am

i
Today I bought the pi-B. where is the guide on how to start up it?
Sam

 **AndrewS** says: 22nd Apr 2015 at 10:31 am

You see that big "HELP" button up at the top? It includes a link to <https://www.raspberrypi.org/help/quick-start-guide/> :-)

 **t1** says: 24th Apr 2015 at 1:40 pm

use usb type c on rpi 2 model a/b+! it's roughly the size of microusb, and it supports (according to apple)
USB-C
POWER
USB
DISPLAY
HDMI
VGA

you could just use usb type-c and GIPO.

Incredibly portable.
With one amazing port.

To create a notebook as thin and light as the new MacBook, we had to strive for efficiency in every detail, right down to how it connects to peripherals and power. So we contributed to a new universal connectivity standard that combines the essential functions you need every day in one dynamic port. The amazing USB-C port offers charging, quick USB 3 data transfer for connecting to external devices and peripherals, and video output that supports HDMI, VGA, and DisplayPort connections. All in a small, reversible design that's one-third the size of the current USB port.
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that's what apple has to say about usb type-c on the new macbook page.

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Ben Nuttall says:

24th Apr 2015 at 3:09 pm

But how much does the component cost? And how much do all the extra adapters you need cost?

Those extra costs are ok if your computer costs £1500 but not if it costs £25.

You probably just doubled the price of the Raspberry Pi and made everyone spend the same amount again on silly adapters.



Godwin Duah says:

28th Apr 2015 at 11:30 am

i am so obsessed with this device. can some buy me one?



GODWIN DUAH says:

7th May 2015 at 7:59 pm

The raspberry pi is the best thing to happen since the invention of bears



chris weadick says:

1st May 2015 at 5:40 am

wow some hard to find these in Canada for the proper price!



Chris weadick says:

4th May 2015 at 8:03 pm

The Raspberry Pi sure is amazing



Chris weadick says:

4th May 2015 at 8:03 pm

I'd spend money on it



t1 says:

5th May 2015 at 1:07 am

the NY times says google, apple, and monoprice all back usb c. it is supposed to be the standard for the next 10-15-20 years. it should go on whatever gen pi comes out when it's the standard. otherwise it's kinda dorky.



David Robinson says:

16th May 2015 at 7:37 pm

Microsoft was handing out a respectable pile of these for free at their annual education/pep rally conference, Ignite, in early May. Someone sent that fact out on Yammer, and they were all gone well before I got there.

Microsoft getting behind Raspberry Pi 2 opens a lot of potential to see Azure public cloud integrated IoT devices, which is especially interesting given the way you can offload processing to the cloud and leverage cloud resident services such as Service Bus app-to-app messaging and device alerting.

*(For those of you familiar with Microsoft but not the name, this was the 20k-attendees-per-year TechEd conference for-nearly-ever, but they rolled some of the smaller conferences into it and renamed it "Ignite" this year.)



Ismael Irizarry says:

22nd May 2015 at 7:28 pm

Where can I purchase your Raspberry PI2



Ehsan says:

22nd May 2015 at 8:44 pm

It's perfect but your support team say to me you don't sell anything to us
I am a Iranian we really need it and can buy it with Paypal and Creadit card

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Sultana says:

6th Jun 2015 at 4:12 pm

How can I order it?



Carmen Collins says:

11th Jun 2015 at 8:25 am

Mydaughter has just won one of these and as we are not a technically minded family, have no idea what to do with it. She wants to sell it, bless her.



Analog85 says:

15th Jun 2015 at 9:45 pm

Where can I find an Electrical Schematic for this new model?



Thomas P. says:

23rd Jun 2015 at 4:49 pm

Almost 5 months in and we still can't get this system for its advertised retail price. Had one on order but my vendor never had any and couldn't give a lead time. They didn't even know! Cancelled after waiting a month.

At this point I'm thinking of giving up and getting a compute stick. It's ridiculous at this point.



Anis says:

2nd Jul 2015 at 5:03 pm

Pardon me with my new bie with Raspberry pi..
I am looking for hardward board on Amazon.. and found two different for Rpi2

- 1) A 900MHz quad-core ARM Cortex-A7 CPU (~6x performance)
- 2)Raspberry Pi 2 Quad-Core 900 MHz 1GB RAM – Model B

Do we know which is latest and better?



Liz Upton says:

2nd Jul 2015 at 6:35 pm

Those are both the same things, expressed differently.



Anis says:

2nd Jul 2015 at 11:33 pm

Tried looking around,, not sure should I get from Amazon, ebay or buyapi.ca....
quiet price differences,,,,



Rendra Basuki says:

7th Jul 2015 at 12:12 pm

Where can I buy this \$35 Rasberry Pi 2???



Teo says:

7th Jul 2015 at 11:09 pm

Where can we find the schematics of the new RPI 2?

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