

RASPBERRY PI 3 ON SALE NOW AT \$35

810 Comments



Posted by **Eben Upton**
Raspberry Pi Founder
Founder

29th Feb 2016 at 7:00 am

Another update: I managed to miss Baruyr Mirican and Darshan Gopal from the Broadcom test engineering team off the list too. My grade this year is D: must do

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Update: I did a rather poor job of collating the credits list this time. Apologies to Aravind Appajappa, Jeff Baer, Saran Kumar Seethapathi and Noumaan Shah.

Exactly four years ago, on 29 February 2012, we [unleashed](#) the original 256MB Raspberry Pi Model B on a largely unsuspecting world. Since then, we've shipped **over eight million units**, including three million units of [Raspberry Pi 2](#), making us the UK's all-time best-selling computer. The Raspberry Pi Foundation has grown from a handful of volunteers to have over sixty full-time employees, including our new friends from [Code Club](#). We've sent a Raspberry Pi to the [International Space Station](#) and are training teachers around the world through our [Picademy](#) program.

In celebration of our fourth birthday, we thought it would be fun to release something new. Accordingly, Raspberry Pi 3 is **now on sale for \$35** (the same price as the existing Raspberry Pi 2), featuring:

- A **1.2GHz 64-bit quad-core** ARM Cortex-A53 CPU (~10x the performance of Raspberry Pi 1)
- Integrated 802.11n wireless LAN and Bluetooth 4.1
- Complete compatibility with Raspberry Pi 1 and 2



Raspberry Pi 3 Model B

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BCM2837, BCM43438 AND RASPBERRY PI 3

For Raspberry Pi 3, Broadcom have supported us with a new SoC, BCM2837. This retains the same basic architecture as its predecessors BCM2835 and BCM2836, so all those projects and tutorials which rely on the precise details of the Raspberry Pi hardware will continue to work. The 900MHz 32-bit quad-core ARM Cortex-A7 CPU complex has been replaced by a custom-hardened 1.2GHz 64-bit quad-core

ARM Cortex-A53. Combining a 33% increase in clock speed with various architectural enhancements, this provides a 50-60% increase in performance in 32-bit mode versus Raspberry Pi 2, or roughly a factor of ten over the original Raspberry Pi.

James Adams spent the second half of 2015 designing a series of prototypes, incorporating BCM2837 alongside the BCM43438 wireless “combo” chip. He was able to fit the wireless functionality into very nearly the same form-factor as the Raspberry Pi 1 Model B+ and Raspberry Pi 2 Model B; the only change is to the position of the LEDs, which have moved to the other side of the SD card socket to make room for the antenna. Roger Thornton ran the extensive (and expensive) wireless conformance campaign, allowing us to launch in almost all countries

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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. This time round, we’re recommending a 2.5A adapter if you want to connect power-hungry USB devices to the Raspberry Pi.

Raspberry Pi 3 is available to buy today from our partners [element14](#) and [RS Components](#), and other resellers. You’ll need a recent NOOBS or Raspbian image from our [downloads](#) page. At launch, we are using the same 32-bit Raspbian userland that we use on other Raspberry Pi devices; over the next few months we will investigate whether there is value in moving to 64-bit mode.

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 earlier Raspberry Pi models?

No. We have a lot of industrial customers who will want to stick with Raspberry Pi 1 or 2 for the time being. We’ll keep building these models for as long as there’s demand. Raspberry Pi 1 Model B+ and Raspberry Pi 2 Model B will continue to sell for \$25 and \$35 respectively.

What about Model A+?

Model A+ continues to be the \$20 entry-level Raspberry Pi for the time being. We do expect to produce a Raspberry Pi 3 Model A, with the Model A+ form factor, during 2016.

What about the Compute Module?

We expect to introduce a BCM2837-based Compute Module 3 in the next few months. We’ll be demoing Compute Module 3 at our partners’ launch events this morning.

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. BCM2837 runs most of the VideoCore IV subsystem at 400MHz and the 3D core at 300MHz (versus 250MHz for earlier devices).

Where does the “10x performance” figure come from?

10x is a typical figure for a multi-threaded CPU benchmark like SysBench. Real-world applications will see a performance increase of between 2.5x (for single-

threaded applications) and >20x (for NEON-enabled video codecs).

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 BCM2837 chip program, BCM43438 integration and Raspberry Pi 3 follows:
Dinesh Abadi, James Adams, Cyrus Afghahi, Aravind Appajappa, Jeff Baer, Sayoni Banerjee, Jonathan Bell, Marc Bright, Srinath Byregowda, Cindy Cao, KK Chan, Nick Chase, Nils Christensson, Dom Cobby, Teodorico Del Rosario Jr, Phil Elwell, Darshan Gopal, Shawn Guo, Gordon Hollingworth, Brand Hsieh, Andy Hulbert, Walter Kho, Gerard Khoo, Yung-Ching Lee, David Lewsey, Xizhe Li, Simon Long,

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Shawn Shadburn, Noumaan Shah, Mike Stimson, Stuart Thomson, Roger Thornton, James Tong, James Turner, Luke Wren. If you're not on this list and think you should be, please let me know, and accept my apologies.


raspberry pi 3 news announcements

810 COMMENTS

- 


Andrew Chalkley says:

29th Feb 2016 at 7:01 am

Congrats!
- 


Paul Newill says:

29th Feb 2016 at 9:05 am

Andrew Chalkley! Hello! Of all the millions of people's names I could see, I see yours! Woohoo.
As for RPi, congratulations!
- 


jofl sadiq says:

29th Feb 2016 at 3:15 pm

awesome job
- 


joel says:

29th Feb 2016 at 7:16 pm

I LOVE MY 2 RASPBERRY PIs, can't wait to get my hands on the version 3.
This is a game changer, thank you!!
- 


michael says:

13th Mar 2016 at 7:07 am

metoo!
- 

BSocio says:

1st Mar 2016 at 4:14 am

Happy Birthday Raspberians !
What about Gig interface ?
- 

Aaron C says:

1st Mar 2016 at 4:46 am

Yep. I love my Pi 2, but I went with the PINE this time because of the gigabit networking.



Pete Stevens says:

1st Mar 2016 at 8:56 pm

What did you benchmark the networking at?



Jim Manley says:

2nd Mar 2016 at 3:13 am

You mean the *perception* of Gbps Ethernet, as well as all of the other promises made for the PINE64. Can I see *your* PINE64 running Gbps Ethernet, please? What is your Internet access speed? If it's Google Fiber or something similar, you're paying three-to-four times the cost of the Pi 3B *per month* for that service! This is not typical for a Pi user almost anywhere. Even if you do have Gbps Internet access, the vast majority of servers can't

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Suparious says:

2nd Mar 2016 at 7:55 am

It's really to take it off of the USB bus, rather than to have it gigabit.



ryan wallace says:

2nd Mar 2016 at 8:03 pm

I'm using it to monitor my network, but I get 150+Mbps network, and I can't test that with a 10/100 port... It's not an ideal solution, but it's an amazing little tool to do that with. I just wish I could get gbps speed out of the port. USB based gig ports adapters don't seem to be effective...



nomadewolf says:

3rd Mar 2016 at 10:43 pm

Well, since i use my Pi B+ as a kind of a NAS, Gigabit Ethernet would be very welcome... Internet access is not the only use for it...



Benny Boy says:

4th Mar 2016 at 3:13 pm

Why would you assume a Gigabit Ethernet port would be used for gigabit Internet access, there are plenty of applications that run GigE LANs and aren't even connected to the Internet at all.
For me though 100Mbps LAN is fine, but Power over Ethernet would be a useful addition.



Nelson says:

21st Mar 2016 at 10:11 am

One question, have you ever heard of local networking?



johnm says:

4th Mar 2016 at 9:38 pm

PINE has an allwinner cpu right? :/
i'm staying with PI3



Kevin says:

2nd Mar 2016 at 9:58 pm

I agree on gig although I'll still be ordering 3's. :) Gig is pretty much required if you are going to use a Pi to head a NAS. The talk about "What is your internet speed, etc" doesn't apply to someone who wants to use it as a headless NAS controller or someone who wants to run OpenElec and stream UltraHD video... I run Pi 2's for Openelec and have no issue with streaming 1080P however



James H De Groot says:

5th Mar 2016 at 7:35 pm

That sound very inreresting two Pi,s for streaming!? Can you tell me more about it? , is the Pi 3 maybe the solution? b.r James



AverageJoe says:

5th Jun 2016 at 6:13 pm

I run Recalbox on my Pi2 for retro gaming and it has Kodi embedded in it. The Pi2 stutters and may freeze on N64 games (but I'm fine with the thousands of Atari, NES, SNES, Gameboy, MAME, Genesis, etc). And Kodi is there for all your streaming needs via 3rd party addons. The BEST part of recalbox for me is that it pairs nicely with PS3 controllers and it runs smoothly on the pi2. I'll be getting a 3 to finally not have to worry

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Over-50 says:

1st Mar 2016 at 12:50 pm

There's an X-Ray of the Raspberry Pi 3 at

<https://www.flickr.com/photos/ultrapurple/25313223701/in/dateposted/>

It's quite a feat of engineering – all the wiggly lines are to equalise delays between signals that need to arrive at precisely the same time...



Normand Ragot says:

4th Mar 2016 at 7:18 pm

Why would anyone want to see an x-ray of the....OMG! I WANT THAT TATTOOED ON MY FACE!!! Oh, ahem....I guess it's kinda cool....:)



Raheem says:

1st Mar 2016 at 2:20 pm

Well done! This is what you call a reformer!

Rasp for life.



Peter Rich says:

2nd Mar 2016 at 3:00 pm

Chalkley of ELSM fame?

That's incredible.

Good news about the pi but Chalkley!

This blog has replaced Friends Reunited!



Ioannis says:

29th Feb 2016 at 7:03 am

Perfect, worth waiting for !!!!

Warmest Regards

Ioannis

<http://www.pimodules.com>



Anton says:

29th Feb 2016 at 7:03 am

You are the best! Thank you!



Alan Mc says:

29th Feb 2016 at 7:04 am

Bon anniversaire ! Where will we be in 20200229 ?

Bravo everybody.



Anton says:

29th Feb 2016 at 7:06 am

You are the best! Thank you!

And the figures are truly mind-boggling: to you, Raspberry Pi, to the next four(ty) years!



Zebu says:

29th Feb 2016 at 7:06 am

Awesome news, I placed an order for one a few hours ago at RS.

they seem to have jumped the gun a little :p



Raspberry Pi Foundation

29th Feb 2016 at 7:06 am

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Winkleink says:

29th Feb 2016 at 7:06 am

Congratulations.

Ordered mine.

Excited to see how it performs, especially with the Wifi/Bluetooth not tied to the USB.



Winkleink says:

29th Feb 2016 at 7:45 am

We have the podcast live now with an interview with Eben Upton.

Talking about the Pi 3 and what it took to make it happen as well as more details on software optimisation and some future work.

<http://thepodcast.com/the-pi-podcast-16-raspberry-pi-3-special-with-eben-upton/>



Alasdair Allan says:

29th Feb 2016 at 11:12 am

Some performance benchmarks for the new Pi 3 at

<http://makezine.com/2016/02/28/meet-the-new-raspberry-pi-3/>. You can compare them to other machines at <http://www.roylongbottom.org.uk/dhrystone%20results.htm>.



fattire says:

29th Feb 2016 at 7:07 am

Congrats



Steve Foster says:

29th Feb 2016 at 7:07 am

Happy birthday and thank you for making such a game-changing computer. It has changed teaching in Computing for ever and has already changed the lives of so many people around the world. Ooh – and congrats on managing to bring out the Pi 3 today at such a god price :-)



neomew says:

29th Feb 2016 at 7:08 am

yay its out :D



W. H. Heydt says:

29th Feb 2016 at 7:10 am

Congrats, thanks, and Happy Anniversary. I look forward to whatever you release on 29 Feb 2020. (That's to keep you from getting complacent!)



michael says:

13th Mar 2016 at 7:11 am

i didn't know they were going to release something then too... lol i'm still a newbie to raspberry pi



Web developet says:

29th Feb 2016 at 7:11 am

Happy birthday! I'm so excited to use this on our next projects! Weeeh!



Texy says:

29th Feb 2016 at 7:12 am

Whoop!
Fantastic achievement.

Texy

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Awesome news! I've had a chance to get my hands on a Raspberry Pi 3 and review it!
See here: <https://youtu.be/Y2Z6b64eh2E>

The Raspberry Pi Guy!



Richard says:

29th Feb 2016 at 9:21 am

Nice video, thanks for posting this.



The Raspberry Pi Guy says:

29th Feb 2016 at 2:59 pm

Glad that you enjoyed the video!



neomew says:

29th Feb 2016 at 7:14 am

happy birthday Raspberry pi :D



Jared Mauch says:

29th Feb 2016 at 7:14 am

Isthere a reason the ethernet was not upgraded to gigabit? Was the wireless certification part of the project that resource consuming? Newer datacenter switches are not supporting 100m speeds.



Texy says:

29th Feb 2016 at 7:29 am

I'm pretty sure that 100% of educational establishments support 100mb.
Texy



james says:

29th Feb 2016 at 9:00 am

IIRC on the original Raspberry PI Ethernet Interface was basically attached the the USB controller, which was (is (?)) USB 2, which can only do 480 mbit, so Gigabit was not possible.

I was crossing my fingers for Gigabit in this release.



Peter den Haan says:

29th Feb 2016 at 10:14 am

Ofcourse it's possible. Check Amazon; there are any number of USB 2.0 gigabit ethernet adaptors on the market. Of course, you won't be able to saturate the network from a 480Mbps bus. But you can still do a lot better than 100Mbps.



David says:

8th Apr 2016 at 7:34 pm

Actually... 480Mbit USB 2.0 is just theoretical.

Bugs/design flaws... call them what you may limit throughput to about 280Mbit and I think that's total.



ian smith says:

29th Feb 2016 at 1:57 pm

and I would love to use many of them around my WANs as network monitors/speed checkers but the 100mb interface thwarts this.

Next time please?

Ian

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@Jared_Mauch – What are you talking about, not supporting 100 Mbps speeds? That's so ridiculous that it's ... well, ridiculous! Any Ethernet device will operate at whatever speed it can and the switches will deal with whatever packets come whenever they come, taking care of other circuits while waiting for the slower interface to do its thing. Besides, there aren't many datacenter switches connected directly to Pii ... sheesh!

Getting beyond 100 Mbps on a shared network segment (which most Pii are on, anyway), even with a USB Gbps Ethernet dongle, won't get past 100 Mbps due to contention, and if there's _anything_ else going on within the Pi's USB bus, there's going to be contention there, too, see also "chokepoint".



bert says:

29th Feb 2016 at 6:34 pm

I have el-cheapo GB switches and they can perfectly handle 3-4 simultaneous full speed GB full duplex movie file transfers at the same time. Internal switching power is 16GBPS.



Peter Green says:

29th Feb 2016 at 8:30 pm

Each speed of twisted pair ethernet is a separate standard (10BASE-T, 100BASE-TX, 1000BASE-T, 10GBASE-T). Traditionally ports have been engineered to support slower speeds as well for backwards compatibility but this has never been a strict requirement.

The electrical requirements of 10GBASE-T are challenging to say the least. Trying to support lots of different electrical standards at the same time as supporting the electrical requirements of 10GBASE-T is extremely challenging.

Ports that support 10GBASE-T usually also support 1000BASE-T, sometimes but not always support 100BASE-TX and afaict never support 10BASE-T.

Note: I'm just providing information here, I don't see this as a major issue for the Pi.



Pete Stevens says:

1st Mar 2016 at 8:58 pm

The power requirements of a 10Base-T port are vastly higher than the whole Pi. We use SFP+DA in the data centre instead because 10Base-T uses too much power and cooling.



ian smith says:

1st Mar 2016 at 7:17 am

myWANs are made up mainly from 1Gbs wireless segments. I need to check the speed these links are achieving.

It's not possible to speed check a 1Gbs link with a device with a 100Mbps interface. I'm instead using mini-itx devices with 1Gbs interfaces. But it would be nicer to use Pis...

Ian



Jim Manley says:

3rd Mar 2016 at 3:23 am

The people demanding Gbps Ethernet constitute a fraction of a fraction of a fraction of a percentage point of the now eight million-plus Pi users. A typical Gbps switch with any real capacity costs orders of magnitude more than the Pii they're talking about

connecting to them and is the biggest waste of money I've ever heard of, bar none. For those babbling about connecting NASes, the internal chokepoint on the Pi's bus is going to spoil your day no matter how big and fast your drives are. People say that there won't be anything else on the bus, but that's rarely true because there is more going on in these systems than they realize. Trying to torque a low-cost educational computing device to do things it's not meant to support and being disappointed is a fool's errand – sometimes you get what you pay for, no more, no less.



Jonathan Pallant says:

29th Feb 2016 at 7:15 am

That's amazing guys. So much power! Surely you can't keep it up at this rate? A very Happy Birthday to to.

Oh you really need to have a word with CPC and RS. Ordered mine at 6am and I've been

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Herman says:

29th Feb 2016 at 7:16 am

Congrats to the team for – once again – a very nice job, thank you! And also, happy birthday Rpi!

I was thinking of buying my 3th Rpi 2 B, that will –of course – be a Rpi 3 now.



Herman says:

29th Feb 2016 at 7:31 am

Sorry for the typo. Birthday ==> birthday.



Alejandro says:

29th Feb 2016 at 7:18 am

what about the RAM?



Taxy says:

29th Feb 2016 at 7:33 am

1gig of RAM



gitti says:

29th Feb 2016 at 8:31 am

I'm waiting for 2GB of RAM.



Lada says:

29th Feb 2016 at 9:33 am

Any plans for a model with more RAM? It's usable a a perfect low power always-on workstation now. I'd buy it with more ram (2GB, maybe more) even for a higher price.

Anyway, fantastic work, thumbs up!

I've already ordered two from Farnell.



James Hughes says:

29th Feb 2016 at 9:46 am

Noplans. There is an architectural limitation with the VC4 which means 1GB is the limit. Learn to write less memory hungry code!



Vanfanel says:

29th Feb 2016 at 1:48 pm

This is a great response: back to code optimization! No more code that eats up memory as if we were in M\$ world! :D



Michael says:

1st Mar 2016 at 10:23 am

But a flat static Data structure make things often faster then a new CPU!



David Radford says:

1st Mar 2016 at 11:43 am

I suppose you could have the first 4GB of the ARM's physical memory map going through the current path and higher addresses diverted to a second block of memory, private to the ARM? It wouldn't be visible to the peripherals or videocore, but it could be used for user-mode programs. So 1GB shared and everything else private to the ARM.

I know nothing about the BCM's internals, so I'm just speculating.



Seaborg says:

29th Feb 2016 at 12:44 pm

Yeah, I understand the limits of VC4 but I would be awesome to have more RAM 2G or

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Jan Mrázek says:

29th Feb 2016 at 7:18 am

Too bad element14 isn't selling it yet...



JAB_au says:

29th Feb 2016 at 7:31 am

Yes waiting for element14 order page



Hans Otten says:

29th Feb 2016 at 7:19 am

Four years ago I was amazed and on board this unstoppable train, and many Pi's have entered my house. And it continues in a great way! Congrats and see you next birthday in 4 years! RPi 6?



Aruna says:

29th Feb 2016 at 7:20 am

Any idea how fast is the wireless lan? I am wondering whether it is possible to run kodi without lan now



Micha says:

29th Feb 2016 at 7:49 am

It seems to be a 802.11n-chip. If I am not wrong...but already "normal" Wlan with 54 Mbit(g) should reach ~2 Megabyte, enough for me to watch even my hd-films over wlan without a problem.



David McIntosh says:

1st Mar 2016 at 9:13 pm

If you are having trouble running kodi on g-type wifi, your problem is not the speed of your wireless adapters. The problem is the number of your neighbours who are also using wifi in the same or an overlapping channel. It's a bit like getting stuck in a traffic jam: a faster car won't get you through any quicker; what you need is a less crowded road.

(OK, techies, I know that the road is not a good analogy for wifi, but it is an illustration of congestion vs. equipment as a cause of slow results.)

In densely populated areas, the 2.4 GHz waveband is overcrowded, and has been so for a long time. Unfortunately, the wifi chip in the Raspberry Pi 3 will only work on that crowded 2.4 GHz band. The solution for the Raspberry Pi 3 is the same as for the Raspberry Pi 2: you need a 5 GHz wireless access point (usually sold as a router) and a 5 GHz wifi adapter (or "dongle") for your Pi.

Presumably this particular chip was chosen by R-Pi for its small size and low price, in keeping with the R-Pi's intended purposes.



Richard Sierakowski says:

29th Feb 2016 at 7:20 am

An excellent evolutionary step. This provides a great flagship system for the RasPi series and crucially maintains the option of full 32 bit compatibility with the promise of 64 bit processing enhancements.

Hopefully effort has gone into increasing the opensource mode of the system hardware.

A truly great effort by all involved.

Richard



Chris Hansen says:

29th Feb 2016 at 7:21 am

I will never stop being amazed at this device! Thank you for your forward thinking for all of our youth and adults alike! I love this!!! Chris-WO1T

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Happy anniversary and I'm truly excited about this new Pi. Hopefully over time we can all get 64 bit support everywhere we can. Being able to retain the same price as the original Raspberry Pi B is truly amazing. Four years and dollar for dollar you're getting 10x the performance. Keep up the amazing work guys and girls, there's no tech community like this one :)



Olof says:

29th Feb 2016 at 7:24 am

I thought that you should release it on the 14th of March?



Jim Manley says:

29th Feb 2016 at 5:50 pm

At the rate they're cranking out new models, I wouldn't be surprised to see a Pi 4 on Pi Day 2016!!! :D



Archisman Panigrahi says:

29th Feb 2016 at 7:25 am

What will be the advantages of the 64 bit processor?



Dutch_Master says:

29th Feb 2016 at 3:32 pm

That entirely depends on your application. Most home-coded projects have little use for the increased computing capabilities of 64 bit. Most beneficial will be video data processing and multi-tasking applications on desktop systems. Given that many people buy the RPi as a replacement for their desktop, that's an important factor. I do hope the 64-bit development chain is released soon by the Foundation.



Noobody Special says:

29th Feb 2016 at 4:18 pm

I'm wondering as well. 64-bit only makes sense if you have upwards of 4 GB of RAM.



tim Rowledge says:

29th Feb 2016 at 4:53 pm

This is just incorrect. If you want to make use of more than 4Gb of address space then you need more than 32 bits of address and 64 bit registers certainly provide that. But the converse does not apply!

At least with the ARM 64 ISA you can have 32 bit pointers for example, so you don't 'waste' memory with 64bit pointers everywhere. Your data does not suddenly double in size. You do not need double the memory.

There's so much idiotic uninformed nonsense around the net on this right now; let's not add to it here.



Bill Murray says:

29th Feb 2016 at 5:28 pm

Noneed to flame, there are kids watching.



Robert Pogson says:

29th Feb 2016 at 10:55 pm

"You do not need double the memory."

This is just silly. The Pi 3 would be much more useful with more RAM. Forget about 4GB. Why not 64GB or whatever the user's applications and data require? Pi 3 could be a useful general-purpose computer with just a few bottlenecks like RAM and bandwidth raised. 1GB eliminates lots of applications and a lot of multi-processing.

Moore's Law and ARM have allowed us to have a lot of computing power on a tiny chip. Why not use it all? All over the world there are millions of ARMed systems being limited by RAM or networking bandwidth or cache or storage. It's 2016. ARM can compete

against Intel on a price/performance basis with just a tiny increase in resources.

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David Radford says:

1st Mar 2016 at 12:03 pm

You don't need 64-bit registers to get beyond 4GB. The Large Physical Address Extension supports 40-bit physical addresses, and the Cortex-A7 implements that. Which is 1TB. Each app gets its own private virtual->physical mapping table, leading to overlapping address spaces.

The problem is, from what I gather the ARM is really just bolted onto the side of the videocore, like a co-processor. The memory is attached to the videocore's bus, which is essentially 30-bit (plus 2 bits for cache control). Hence the maximum addressable physical ram is 1GB. To go beyond that you would need to either completely redesign the whole SoC, or else give the ARM a separate bus somehow.



"Blind Man" Bert Sierra says:

2nd Mar 2016 at 9:40 am

One major advantage to 64-bit CPUs over 32-bit CPUs is certainly the potential address space, but as has been pointed out this doesn't really apply in a Raspberry Pi environment.

Being someone who focuses a lot on combinatorics and AI programming, I am simply thrilled that the Raspberry Pi 3 boards, with appropriate compiler support will host 64-bit integers natively. That's a HUGE bump in my world of big numbers, actually, so I would be seeing major speedups, especially through parallel processing across all four 64-bit ARM cores and to connected FPGAs cranking away for advanced high speed computation.



James Hughes says:

29th Feb 2016 at 5:07 pm

Main advantage right now is that the A53 core can run at 1.2Ghz, considerably faster than the Pi2.

And once implemented, 64 bit processing in 1GB is perfectly possible. Only pointer NEED to be 64 bit, not the memory they point to. So, let's say you have a 10MB JPEG image, pointed to in memory. The added storage going to 64bit? TWO BYTES. Completely insignificant.



tim Rowledge says:

29th Feb 2016 at 6:14 pm

Not strictly true. Pointers do not need to be 64bit values in memory unless your OS insists on using a >4Gb address space. The v8 ISA is quite happy – so far as I can make out from the docs, it's always possible I'm misunderstanding – to load 32 bit values from memory to use as pointers. They get extended in the destination register; and anyway the current v8 memory translation system appears to limit actual addresses to 49 bits (see PRD03-GENC-010197 p.13).

v* still treats 32 bits as the general 'int' so there's no sudden doubling of data size. Instructions are still 32 bits, so there's no automatic doubling of code size. The people out there loudly claiming that to use a 64 bit cpu you have to have more than 4Gb of ram are just plain wrong.



Micha says:

29th Feb 2016 at 7:26 am

Congratulations, and nice to see the new Pi!

Regarding Wlan/Bt, is it possible to connect an external antenna? Otherwise I could imagine that a metal-case would be not so good...or is it possible to disable the internal chip?

However – I want it :) Good work!



Alex Eames - RasPi.TV says:

29th Feb 2016 at 7:28 am

Congratulations and Happy Birthday.

Raspberry Pi has literally changed many lives including mine. I'm sure those concerned are extremely grateful. I know I am.

Thank you...

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Archisman Panigrahi says:

29th Feb 2016 at 7:29 am

Is it still camera shy?



Alex Eames - RasPi.TV says:

29th Feb 2016 at 7:31 am

No. See my video overview to see the new U16 with black shield on it...

<https://youtu.be/wTTa-24whdw>



Ben Nuttall says:

29th Feb 2016 at 7:31 am

No, a component swap fixes that issue :)



Alasdair Allan says:

29th Feb 2016 at 10:25 am

Was interested to see that the BCM43438 radio wasn't encapsulated though?



Jeff says:

2nd Mar 2016 at 8:34 am

Looks like it's still light sensitive due to the radio chip:

<http://www.golem.de/news/raspberry-pi-3-im-ersten-test-kein-grund-zur-eile-1603-119469-4.html>



Lukas says:

29th Feb 2016 at 7:29 am

still not enough RAM, it is cool that wifi is now integrated, but the cpu boost is not usable without more RAM...



ColinD says:

29th Feb 2016 at 8:24 am

Lukas, In what was the extra CPU "not usable" without extra RAM? I can write lean code that performs highly complex maths and hammers the CPU for instance.



David says:

2nd Mar 2016 at 2:49 am

It's because, as we all know, RAM makes a computer faster!!! Sometimes I really hate PC marketing... The often spew falsehoods and inaccuracies such as that.



Matt Hawkins says:

29th Feb 2016 at 8:35 am

You don't need extra RAM to take advantage of a faster CPU.



gregeric says:

29th Feb 2016 at 7:30 am

Nice:-) SDIO for WiFi I assume, GPIO's 34-39 alt3? BT on second serial port, 40/41?

First project: hack the hardware to use the 43438's FM receiver too.



Liam Jackson says:

29th Feb 2016 at 9:20 am

I wondered this too, how are they hooked up (Eben said sdio/uart, but not which GPIO)? Does it stop you using anything on the hats (e.g. SDIO, UART)?



gregeric says:

29th Feb 2016 at 11:22 am

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some pins.



Tzj says:

29th Feb 2016 at 5:47 pm

If a hack for the FM is available then we can send AND receive.... which would be pretty useful for a diy ham radio or other comms.



Michelle says:

29th Feb 2016 at 7:30 am

Happy Birth Day

My new Raspberry Pi 3 is on the way to me.

<https://jiffyshop.com.au/SBC/raspberry-pi/108-raspberry-pi-3.html>



Bart Scheffer says:

29th Feb 2016 at 8:35 am

But thats for \$66 in stat off the \$35 the tell us here ???



Dutch_Master says:

29th Feb 2016 at 9:12 pm

The \$35 is US Dollar, at the factory gate. Well ok, in the stores then. But to get it to you, you pay the seller for putting your RPi3 in a box that can be shipped and the cost of then shipping it over to you. And if the box crosses some border, you may be liable to pay import tax/duty too.

Let's not repeat the continues whining after the Pi Zero launch, shall we? :-\



mahjongg says:

1st Mar 2016 at 12:01 pm

Australian dollars isn't the same as US dollars.
66 Australian dollars = US\$ 47.50
US\$35 is the base price, without shipping and takes.



Paul Webster says:

29th Feb 2016 at 7:31 am

Well done all.

I've ordered mine from Pimoroni – although just spotted that they are still selling with 2amp power supply rather than the newly recommended 2.5 (depending on which peripherals are used with it).



thomas says:

29th Feb 2016 at 7:31 am

WHOO HOOOO, THIS IS FANTASTIC, INTEGRATED WIFI AND BLUETOOTH WILL FREE UP TWO USB PORTS, TWO!!!



Tosa Saito says:

29th Feb 2016 at 7:33 am

Happy birthday and thank you for the exciting gift!!
We are looking forward to having it soon.

from Japan, KSYIC.com
<https://raspberrypi.ksyic.com/>



Leo White says:

29th Feb 2016 at 7:34 am

Got one in the post!
Will make my Pi Projects a little more stream lined, at least until the Model A variant

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trevor hales says:

29th Feb 2016 at 7:36 am

Congratulations.
I note it needs a new power supply ...
2.5 A power supply. With more processor speed and on-board connectivity, you'll need more power. Power supplies for previous Pi boards will not be sufficient. You will need the Official Raspberry Pi Power Supply



Jim Manley says:

29th Feb 2016 at 5:59 pm

You will only need a new power supply (above 2 Amps) if you're pushing the entire SoC to the limit, and that means fully exercising the GPU that makes up over 90% of the die that most people seem to forget is even there. I assume the A53 accommodates power throttling when it's not doing a lot, as do all of the previous SoCs' CPUs, so if you're only doing bursts of CPU activity with just typical desktop graphics GPU demands, you're not going to need full power. It will be interesting to see power loads when typical apps are exercised in normal use cases. Most code won't even use the 64-bit capabilities for quite a while, until/if/when ports are performed where they don't already exist.



mobluse says:

1st Mar 2016 at 12:05 pm

The official Raspberry Pi Universal Power Supply is only 2.0 A, see
<https://www.raspberrypi.org/products/universal-power-supply/>



Olivier says:

29th Feb 2016 at 7:36 am

Does this new version 3 able to decode full-HD H.265/HEVC files ?



bennett says:

29th Feb 2016 at 7:51 am

It's the same VideoCore GPU, so no. The faster CPU will improve software decoding, but it's still not hardware accelerated.



spock says:

29th Feb 2016 at 10:12 am

but could the new cpu with neon be fast enough for 1080p hevc decoding?



WereCatf says:

29th Feb 2016 at 2:34 pm

The Ars Technica – article does claim support for H.265/HEVC up to 1080p@30FPS on the RPi3 – “The new Pi also gains H.265 support for the first time but is limited to 1080p at 30fps.” at <http://arstechnica.com/information-technology/2016/02/raspberry-pi-3-has-wi-fi-and-bluetooth-64-bit-chip-still-just-35/>

At this point I am looking for someone to confirm or deny this because whether I buy an RPi3 or not fully depends on this.



Silviu says:

29th Feb 2016 at 9:05 pm

Really needed a next generation Video Core with:

- h264 and h265 4k hardware decoding
- newer Opengl ES version supported (maybe latest OpenGL without ES :D)
- allow the Pi to have 4 GB RAM



Yves says:

29th Feb 2016 at 7:37 am

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Greg says:

29th Feb 2016 at 7:40 am

Happy birthday!!



Leo Leibovici says:

29th Feb 2016 at 7:42 am

Many happy Birthday and congratulations

Link to element 14 goes to Pi page but does not show the Pi 3. Link to RS does but they redirect you to PiHut (and others if you are not a "business".

Seems best to go to Pimoroni or PiHut directly.

Leo



Kevucopia says:

29th Feb 2016 at 3:29 pm

I'm not a business but managed to order one from RS without any difficulty (I didn't use the link though, I just searched online). It's free next day delivery too!



Winkleink says:

29th Feb 2016 at 7:43 am

OnThe Pi Podcast hear Eben Upton give all the details and more.

<http://thepipodcast.com/the-pi-podcast-16-raspberry-pi-3-special-with-eben-upton/>



TattooedGeekyGirl says:

29th Feb 2016 at 7:46 am

This is great! I've had a model A, a model B, a model B+, (which now all my friends have inherited) and I'm now using a Pi 2 for Kodi for myself. Kept talking myself out of buying another Pi 2 so my little boy could have one, now I don't have to! I never bought a zero, first because of availability, and then because I realized the Pi 2 had more to offer for the same price once you bought all the attachments (for my personal needs, anyway). I'm SO excited it has Wi-Fi, although to be honest, the Wi-Fi on mine has always been spotty so I've kept it plugged to Ethernet.

Could anyone answer a question for me? Although I'm a Geek by nature I'm also a girl so I love to accessorize...cases? Although they SAID the B+ cases also fit the Pi 2, I at the time had a stack case, and it didn't. I haven't yet bought a pretty case for my Pi 2 for fear I will have to leave it behind just like I did before. Will most cases for Pi 2 fit Pi 3? I kinda know now to stay away from stack cases. *sob*



Phil says:

29th Feb 2016 at 12:25 pm

Pibow, for instance, already have Pi 3 cases available. They also list being compatible with Pi 2 (and other models). So is that a possibility? If Stacking cases are your kind of thing (I like them too) I'm sure they'll list compatibility soon. I see no reason why the multi-pi wouldn't work but no harm waiting for it to be confirmed. Where didn't your old case fit?



TattooedGeekyGirl says:

2nd Mar 2016 at 12:06 pm

They specifically cut out around all the little chips on the board in each slice, and as you can see, on each new board they scoot the chips around to different places. Fortunately the B+ was given to my best friend whose favorite color is also purple. I ordered my Pi 3 and a white and red Pi 3 modular case from Pi Supply, because Element 14 was out of stock with Pi's by the time I got around to ordering from them. Being in the US, I had to sleep, got the news it was available as I was going to bed and ordered as soon as I got up. Just lucky I didn't miss out and have to wait!!



Frank Davis says:

29th Feb 2016 at 7:47 am

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Mirek C says:

29th Feb 2016 at 7:48 am

Cool, great, I love it, especially if there will be model A with these features. But what about adding a tiny u.fl connector for external antenna? It costs merely nothing, but adds so much range. Guys and gals, please!! :)



Tim Richardson says:

29th Feb 2016 at 7:48 am

What fantastic news to wake up to. A real surprise!



Martin O'Hanlon says:

29th Feb 2016 at 8:33 am

A comment just dripping in sarcasm :)



iplayemulatorsonmydesktop says:

29th Feb 2016 at 7:48 am

Sobasically, it's a raspberry 2, with built-in wifi and bluetooth, yeah... It would be funny to see the hype-driven fanboys switch from the zero to this one. Fan up the hype.



sfsdf says:

29th Feb 2016 at 3:21 pm

There is a different CPU in the chip.
Big change from just adding WiFi and BlueTooth.
Not to mention there might be some other differences.



Bennett says:

29th Feb 2016 at 7:49 am

"has been replaced by a custom-hardened 1.2GHz 64-bit quad-core ARM Cortex-A53"

What does "custom-hardened" mean in this scenario?



Jim Manley says:

29th Feb 2016 at 7:06 pm

Custom-hardened means you'll break a tooth trying to bite into the SoC to see if it's a genuine nugget, like in the Wild West gold prospectin' days of the '49ers (1849ers, that is :) Hence the specs including Bluetooth as a feature, because that's what you'll have after trying to bite an SoC, a Blue tooth! :D

Sorry, I just could not resist that one ... :)



Rogier Kerstens says:

29th Feb 2016 at 7:52 am

Congrats on the 4th anniversary from the Kiwi Electronics team!



RaTTuS says:

29th Feb 2016 at 7:53 am

Nice birthday prezziethanks all



Ben Row says:

29th Feb 2016 at 7:54 am

what about the ethernet, still connected to USB?

Ben

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I want to know this too!



James Hughes says:

29th Feb 2016 at 11:24 am

Yes. Wifi is on the SDIO port.



James Wong says:

29th Feb 2016 at 7:57 am

It's still not available to purchase on element 14 (in Malaysia).

Can you check on this? Really want to get one before it runs out of stock.



Grzegorz says:

29th Feb 2016 at 7:58 am

Soonly SATA is missing ;)



crumble says:

29th Feb 2016 at 7:58 am

You have made yourself a nice Birthday present :)

Happy Birthday! :)

Sadly you cannot fulfill everyone's wishes. My priority is:

- 1) more RAM
- 2) ADC/DAC
- 3) Non USB power supply. It was already hard to find a stable power supply
- 4) Latest OpenCV in the repository compiled with NEON usage

Maybe I get 1 and 3 on your 5th birthday :)



Hans Lepoeter says:

29th Feb 2016 at 7:50 pm

You can use the hardware pwm followed by integrator like a simple RC network to do DA conversion. Works fine.



Pete Brown says:

29th Feb 2016 at 8:01 am

Congratulations!



Fred says:

29th Feb 2016 at 8:03 am

Is there somewhere some detailed specs? RAM? What's the BCM2837-based Compute Module 3?

Thanks



Samuel Orman-Chan says:

29th Feb 2016 at 8:04 am

Well I never. I thought that you were just going to stop at the model B rev. 2 but now there have been so many models. CONGRATULATIONS!



Andrea says:

29th Feb 2016 at 8:05 am

Ordered mine a few minutes ago! Thank you, will definitely love it!



mehmet m. says:

29th Feb 2016 at 8:06 am

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Hans Oele says:

29th Feb 2016 at 8:06 am

Are the new bluetooth drivers and wifi drivers already released?
I've got mine at home already but do not seem to see the BT or wifi.



Texy says:

29th Feb 2016 at 10:28 am

New raspbian image released today –
<https://www.raspberrypi.org/downloads/raspbian/>

Texy



Daniel van den Akker says:

29th Feb 2016 at 8:11 am

Excellent news! Congratulations with the new Pi!! This really makes my monday a good monday ;-)

Enjoy this great day!

Regards,
Daniël



Are says:

29th Feb 2016 at 8:12 am

I've just ordered a couple of 3B. Now, the logical next step is an "A+" version. With Wifi you can skip the ethernet port, and you often only need one usb-port for initial setup. A "Raspberry Pi3 Model A+", with 64-bit 1.2GHz quad-core, at least 1GB RAM, and internal/onboard Wifi, would definitely be very interesting, and I would have bought several the moment I got the chance. :-)



Geoff says:

29th Feb 2016 at 10:03 am

I would actually like to see the zero with wifi.



Malamaker says:

29th Feb 2016 at 2:51 pm

Excited for the 3 with wifi but I really want to see the zero with wifi.



treblig says:

29th Feb 2016 at 7:46 pm

Seeing the current zero would be a quantum leap... (a parallel between Sinclair's QL [and his other products] delivery delays and the zero's might not be involuntary)



Knut R Leer says:

29th Feb 2016 at 8:12 am

Happy Birthday!

And what great way to celebrate it!

I saw some rumors about a «Raspberry Pi 3» the other day, by someone having peeked at FCC documentations — but then here you came and exceeded the expectations. No-one had sussed out that the processor itself had been upgraded too, you see...

So here is a big cheer from me!

And I've put in an order at the pi-hut, so I'm on track to be seeing and trying out this goodness, first hand.



Roy Panaligan says:

29th Feb 2016 at 8:13 am

Happy Birthday, Raspberry Pi! :) Welcome, RPi 3! [{}]

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OMG I WANT ONE



Vivek says:

29th Feb 2016 at 8:15 am

Awesome. Going to order mine soon. I can't wait to try out both Linux and FreeBSD on it.



Smartroad says:

29th Feb 2016 at 8:16 am

Please make a Pi 3 Model A! With built in wireless and a single USB plus the new CPU would make an awesome Wi-Fi speaker or emulation or robot or anything that doesn't need many USB or Ethernet! Please?!

Love the new machine though and it's price point. Now just needs a SATA connector or USB3 for my ownCloud install... hint hint Hehe

Congrats to the team!



Toby says:

29th Feb 2016 at 8:17 am

I think it is good that it has built in internet and Bluetooth



Ben Coburn says:

29th Feb 2016 at 8:22 am

Happy Birthday!

Quad-core and still no heat sink... What's the TDP on the chip at this point?



RaspberryStore says:

29th Feb 2016 at 8:22 am

Congratulations on your birthday, with this lovely present to the rest of the world too!

The Pi3 is now for sale in the Netherlands too! Congrats of the whole team of RaspberryStore.nl.



Leeed says:

29th Feb 2016 at 8:22 am

Happy anniversary.

Don't you think increasing the production of the pi zero would have made more sense instead of releasing a new pi?

The availability of the pi zero is still a major joke.



Mr.Wibble says:

29th Feb 2016 at 12:27 pm

It makes no sense whatsoever.

Why reduce the production of your most profitable products so you can make more of a

(much)less profitable one ?



Dave says:

29th Feb 2016 at 7:27 pm

The RPi Foundation is non-profit...



W. H. Heydt says:

2nd Mar 2016 at 3:46 am

The Raspberry Pi Trading company isn't.



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guess the focus has shifted from Pi-Zero to the new hardware.

Any news on the RP-0



Giuseppe Tangulas says:

29th Feb 2016 at 7:09 pm

nomatter about the urgence(really?)for the new pi 3 but what about the sheer probability of getting one pi zero?, or better the possibility to place an order of 10 pi0 just for the sake of implementing distributed applications? please restock them. I do have 6 pis but the zero has a form factor that is really priceless.



James Hughes says:

29th Feb 2016 at 7:38 pm

ONe the demand for Pi3 drops off there will be production capacity for more Zero's. But the 3's take priority as they cover a larger part of the market.



Dogie says:

29th Feb 2016 at 8:26 am

Mytenth raspberry is now on order.

You really should work harder to keep your new machines embargoed and not leaked the Register in future.



Taxy says:

29th Feb 2016 at 10:31 am

Even Apple, with all there billion\$ can't stop pre-launch leaks.....



Alexandru C. says:

29th Feb 2016 at 8:26 am

Amazing! We plan to use raspiberry pi to host some sections of our website API becuae it's really efficient in terms of cost. The biggest problem that I have is the storage, if we could speed that up or an option to attach ssd to them this will be revolutionary!



Bryan Crotaz says:

29th Feb 2016 at 1:27 pm

<http://wdlabs.wd.com/>



Pete Stevens says:

29th Feb 2016 at 1:54 pm

Doget in contact, the RaspberryPi website is part hosted on the Raspberry Pi.

<http://blog.mythic-beasts.com/2016/02/29/hosting-the-raspberry-pi-3-launch-on-a-raspberry-pi-3/>

We've handled nearly 1 million requests so far today from the Pi3 – it's 50% quicker than the Pi2.



Refund Kart says:

29th Feb 2016 at 8:26 am

I never thought Raspberry Pi 3 would launch this early. A week before I bought PI 2 :(need to upgrade to PI 3



GTR2Fan says:

29th Feb 2016 at 11:42 am

Your Pi2 was clearly adequate for your requirements when you purchased it, so why is it now compulsory to buy a Pi3 to replace it?



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That's a great upgrade to the Pi. THANK YOU for keeping the form factor the same as well!

Right, time to order one via the special MagPi subscribers code :)



Whisnu Sucitanuary says:

29th Feb 2016 at 8:27 am

It was only yesterday I made a tutorial to enable USB wifi on RPi2 headless (<https://www.youtube.com/watch?v=prhinhigsY>) lol. But I am happy with this announcement. Congrats!



Mike Cook says:

29th Feb 2016 at 8:28 am

Just managed to see it on the Farnell web site. I had been refreshing the page since 7:00. Then at 8:15 it showed up. Ordered one and it said out of stock!



Mike Cook says:

29th Feb 2016 at 2:26 pm

They do have them in stock after all, so I should get it tomorrow. At a price of £30.00 that is without VAT but includes "free" delivery.



Ignacio Sánchez says:

29th Feb 2016 at 8:31 am

Four year ago I was buying RPi. Happy anniversary!



Liam Kennedy says:

29th Feb 2016 at 8:35 am

This is simply wonderful news. The built in wifi and BLE is perfect for my application. Couldn't find any listed on US based sites – so just ordered one from Pimoroni with next day delivery to USA.

Of course... I did HAVE to just purchase 67 Model 2 B's last week didn't I. Oh well. Can't really complain.



meltwater says:

29th Feb 2016 at 8:37 am

Great things as always!
Good work on the new Pi, credit to the team it gets more beautiful every iteration.



rai says:

29th Feb 2016 at 8:39 am

congrats team raspberry.. i want to know the size of this raspberry pi 3 model? because it is also a major constraint for my projects.
Thanks and congrats again for this fruitful work.. :-)



Over-50 says:

29th Feb 2016 at 8:45 am

Saw this and jumped straight to Farnell – 1127 in stock – entered my details – *poof* – out of stock.



PeterF says:

29th Feb 2016 at 8:56 am

RSComponents still showing over 22,000 in stock :-).
And Happy Birthday RaspPi!
I'm very happy!

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managed to snap one up from RS. Stranger, an hour later they're gone, showing 22241 in stock.

Am I the only person who's worked out how to buy as a (cough) business, or are they being shovelled straight off the production line and into RS warehouses?

Either way, perhaps this explains why Zeros are so hard to come by. I presume the manufacturing lines are being turned over to the Pi 3.



James Hughes says:

29th Feb 2016 at 9:47 am

Yes, priority to Pi3 since that will have a much larger user base.



Ngoc Do says:

29th Feb 2016 at 8:51 am

Wow, 35\$ for Raspberry Pi 3 is very cheap! Where can I buy it?



beta-tester says:

29th Feb 2016 at 8:53 am

any information about,
will there a special Windows 10 IoT Core 64 bit version coming for the RPi3 ?



sb says:

29th Feb 2016 at 4:49 pm

Windows 10IoT will support Raspberry Pi 3.
Not sure about there would be a 64bit edition.



sb says:

29th Feb 2016 at 4:52 pm

Windows 10 IoT will support Raspberry Pi 3.
Not sure about it will be 64bit or not.



Alex says:

29th Feb 2016 at 8:54 am

Brilliant news! Ordered one from PiHut right away :)

@Liz the missing question from the inline FAQ – how long will the Zero continue to be made available?



Liz Upton says:

29th Feb 2016 at 9:03 am

Forever – we're churning them out as fast as we can. We're really sorry we weren't able to explain why there was a bit of a slow-down; it was because we were using the whole production line for Pi 3 pre-launch!



Geoff says:

1st Mar 2016 at 9:00 pm

It all makes perfect sense now. While the bottlenecks in production of the zero have been frustrating, I think the Foundation has handled the challenges very well, and has done a very good job of communications.

I believe that an aspect that we are not conscious of enough is that despite the fact that the foundation is a non-profit, it is still operating in a competitive market. – The user base is key to the foundation's success. I won't go into the details of my thoughts, but I believe the zero and the 3 are both key to cementing the Raspberry Pi's position as the goto platform for a large user base, which, as I mentioned, is key to the foundation achieving its goals.



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Someone that I saw seems to use the same ethernet module – which is restricted to 100Mbps. That was one of the main reasons I didn't get the Raspi 2 (went for an Odroid instead with a gigabit ethernet port).



chris says:

29th Feb 2016 at 8:58 am

Any way to use an external antenna on the WiFi?



Stefan says:

29th Feb 2016 at 8:58 am

Is ETHERNET still shared via USB?



James Hughes says:

29th Feb 2016 at 9:50 am

Ethernet plug still shared, but Wifi/BT is via SDIO, so a different bus.



George Dubya says:

29th Feb 2016 at 2:22 pm

I have to take a bus to get there?



Marc says:

29th Feb 2016 at 2:38 pm

lol, but seriously we need a different bus for IO. This is getting ridiculous.



George Dubya says:

29th Feb 2016 at 3:02 pm

What are you lol'ing about? I hate public transportation!!



Richard says:

29th Feb 2016 at 8:59 am

Happy Birthday guys :)

Woke up to a frosty cold morning feeling a bit under the weather. Then I see Both Pimoroni and Adafruit live streaming. What's going on I thought, then to discover there is a new RPi in town. You made my week :)

P.s. Ordered one quicker than you can ask "Are you getting one" LoL



Alain says:

29th Feb 2016 at 9:01 am

Many thanks for this very great work to all people who contribute to it.

Please continue to surprise us all the time !

And in the future version, if you think about integrating a CAN Bus driver, I will specially enjoy that !



ColdMoney21 says:

29th Feb 2016 at 9:02 am

The problem with this release is that the CPU didn't need a performance boost. It was already fast at 900 MHz The GPU and RAM are in dire need of an upgrade. Web Browsing will be slow as always and GPU intensive applications will still be bottlenecked. :/



Liz Upton says:

29th Feb 2016 at 9:05 am

>Web Browsing will be slow as always and GPU intensive applications will still be bottlenecked.

Try it before you make assertions – the improvement in web browsing in particular is

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vasilenko_pit says:

29th Feb 2016 at 9:04 am

You can buy it at aliexpress.com/item/Raspberry-Pi-3-Project-Board-Model-B-version-Improved-version



Stewart Watkiss says:

29th Feb 2016 at 9:04 am

Happy Birthday Raspberry Pi.

Well done on the release of another great product. With built in wireless people I thought that would pretty much put an end to all the "it still needs xyz" comments, although I see some still got through :-)

I've ordered one – hopefully I will be able to demo some of my GPIO Disco Lights on the new Pi 3 at the party.

See you next week for the Birthday Party!



Peter Onion says:

29th Feb 2016 at 9:08 am

The Register jumps the gun again and provides wrong details ! "The Pi 3 Model B otherwise looks pretty much like 2015's quad-core 32-bit ARM Cortex-A7-based Raspberry Pi 2: "

Ordered mine for extra "bragging" at the party next weekend :-)

Well Done everyone... Carry on !

PeterO



Jeremob says:

29th Feb 2016 at 9:10 am

<http://www.kubii.fr/1628-nouveau-raspberry-pi-3-modele-b-1-gb.html>

46 euros. Whatelse ...

I'm so disappointed to never have found Raspberry at regular price ... :(



James Hughes says:

29th Feb 2016 at 9:49 am

See Pimoroni or Pi hut – both can dispatch to France.



Jeremob says:

29th Feb 2016 at 10:01 am

Thanks

But 32 GBP (41 euro) is expensive no ?


Because 35 USD = 25 GBP

 fanoush says: 29th Feb 2016 at 11:00 am

Pimoroni says £26.67 GBP without VAT


 cpslashm says: 29th Feb 2016 at 12:18 pm

Plus VAT

 cpslashm says: 29th Feb 2016 at 12:20 pm

I really should refresh the name before I post!

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 FotL says: 29th Feb 2016 at 9:15 am

Absolutely fantastic, listened to the interview as well

<http://blog.pimoroni.com/raspberry-pi-3/>


despite the whiners and moaners complaint about missing features, this a proof that evolution is a better path.

Backward compatibility is a great achievement and the whole team at PiTowers should be applauded.


 Iain says: 29th Feb 2016 at 9:18 am

This is great, would pay extra for 2Gb of RAM and 1Gb Ethernet as am running hypriot and docker on my Pi and the RAM especially would come in handy.


CPU horsepower is always welcome as is built in wifi to free up a port, thank you.

 Allen Darr says: 29th Feb 2016 at 9:18 am


That's awesome, I'll get one by the end of this week!

 Tom says: 29th Feb 2016 at 9:23 am

Will this board support 4K UHD output?

 James Hughes says: 29th Feb 2016 at 9:48 am

Not specifically – GPU is same as previous model, so 4K at 15fps. But no video decode over 1080p.

 Phil says: 29th Feb 2016 at 9:25 am

A Model A Pi 3 will be interesting if it includes the wireless – I assume BT and WiFi are within the SoC package? Interesting from my perspective meaning that a BT keyboard / mouse no longer consumes the sole USB, leaving it free for a MIDI keyboard. Plus a Pi 3 specific synth can chuck the additional performance at double-clocking in 2 different places, leading to much more 'analog' sounding filters and even more alias-free oscillators. Definitely an opportunity to throw clock cycles at quality vs. quantity, because I can already do quite enough synths on a Zero. So I am very much looking forward to the \$20 Model A version of this.

 quadcopters says: 29th Feb 2016 at 9:27 am

o

ol



Robyn says:

29th Feb 2016 at 9:32 am

Can it read analog signals yet? Are the GPIO pins protected?
And why aren't they labelled yet?



James Hughes says:

29th Feb 2016 at 9:46 am

Same GPIO as previous models, so no analogue.



Robyn says:

29th Feb 2016 at 9:50 am

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James Hughes says:

29th Feb 2016 at 9:52 am

Arduino are for a different use case – they don't have a GPU, 64 bits quad cores running at 1,2GHz, or Linux. Very different devices, and they should not be compared with the Pi.



pik33 says:

29th Feb 2016 at 10:44 am

Instead of being compared, they should be connected.



Oliver Darvall says:

1st Mar 2016 at 11:23 am

Correct. And yet a few Analog IO's would be so great !!!!!!!



Pierre says:

29th Feb 2016 at 9:36 am

Happy first Birthday!
I'll probably order my first Raspberry Pi today, since it's my birthday as well :D



Liz Upton says:

29th Feb 2016 at 9:36 am

Happy birthday to you!



Juan Carlos says:

29th Feb 2016 at 9:36 am

HaPi Birthday 4 years 3 Pi's and a lot of fun!!!



Jongleur says:

29th Feb 2016 at 9:42 am

Hippo Bathday!
Just bought one. Triffic!!!



Florian says:

29th Feb 2016 at 9:43 am

I like Raspberry Pi II Model B
I play old Games on Retropi :) on my FlatTV :~)
Great system Thanx



Richard says:

29th Feb 2016 at 9:43 am

Isthere a way to disable the WIFI and bluetooth? I'd love the increase in performance, but radio just adds issues with EMC and we don't need it for our application.



Leo Leibovici says:

29th Feb 2016 at 11:59 am

Some people are never satisfied!!



Dio says:

29th Feb 2016 at 1:37 pm

No, Some people have more complex needs than others.



Jim Manley says:

29th Feb 2016 at 7:33 pm

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cost, not providing every variation of every possible feature any particular user might dream up. It's \$35 and you get much more than we used to pay for, still by a huge margin despite attempts at riding the Pi brand name by hawkers of loss-leader products (and self-admittedly about bankrupt at those prices ... before they even deliver).



JPW says:

3rd Mar 2016 at 10:25 am

Metal Case ? ;) [https://en.wikipedia.org/wiki/Faraday_cage]



Günter Kreidl says:

29th Feb 2016 at 9:45 am

Congratulations both on the 4th anniversary and the new Pi 3. And shame upon the people who have already started complaining that it's not what they wanted.



Tore says:

29th Feb 2016 at 9:49 am

great news. What are the main differences between Raspberry pi 3 and Pine64
<https://www.pine64.com/product/>
They should have the same CPU more or less. What about GPU and other stuff?
Thank you



James Hughes says:

29th Feb 2016 at 9:53 am

I've not done a direct comparison. The Pi specs are well known, shouldn't take long to do a comparison. Don't forget to also include support (from the manufacturers and the community) in your comparisons.



Andrew Oakley says:

29th Feb 2016 at 2:42 pm

I own over 20 Raspberry Pis (I run Cotswold Raspberry Jam) and I backed a Pine 64+ 2GB on a whim. Have to admit I'm feeling rather short-changed now the Pi 3 is out, other than gigabit ethernet (GB eth0 is a notable win for my NAS project but rather irrelevant elsewhere; hence my 20:1 Pi:Pine ratio). I bought two Pi3s this morning and will be buying another to raffle off at our next event.

The Pine 64+ (Plus, not base Pine 64) can have gigabit ethernet and 2GB RAM, for a cost. Other differences over the Pi3 for all models of the Pine 64 include a real time clock, 4K HDMI, microphone input via the mini jack, and dual-core Mali GPU. However there are only 2 USB ports. Hardware specs are otherwise much the same; quad core 1.2GHz ARM.

Biggest problem is that there is as yet no official Linux support for the Pine 64 – only Android – and the community is as yet pretty much non-existent.

The Pine 64's goal of being the first 64-bit single-board-computer is also obviously now lying in tatters :-)

I've no doubt the Pine 64 will find its niche, especially once Linux support becomes real, but it isn't the education-focussed classroom-hardened community powerhouse that the

RPi is.

Having said that, the goal of the Raspberry Pi Foundation is to increase involvement of children in computing and electronics. ANYTHING that does that, be it the Codebug, Arduino, BBC Micro Bit, Pine 64, Raspberry Pi 3, Trinket or otherwise, is a win as far as the Raspberry Pi Foundation is concerned, I would have thought. (So long as nobody treads on any trademarks!)

In other news, my Commodore 64 is better than your Spectrum.



Aaron Van Noy says:

29th Feb 2016 at 3:54 pm

Andrew Oakley I'm in the same boat! I backed the Pine64 and now I see I should have just waited for Pi3!

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K Basim says:

29th Feb 2016 at 6:55 pm

There are already dozens, if not hundreds, of 64-bit SBCs, so Pine64 was never going to be the first (nor does it seem that's what they're really saying).

The difference with the Pine and the RPi versus existing SBCs is the cost, not the features.



Christian Nobel says:

29th Feb 2016 at 9:49 am

Great news.

Kudos for the built-in WiFi which makes life much easier, instead of dealing with external adaptors that one is not sure is available next week – only one driver, very nice.

How is the coverage of the WiFi, the antenna seems quite smallish?

Or is there a possibility to connect an external antenna?

A few things from my wish list / proposals for the future:

OTG port, would be very useful when connecting a PC as a terminal, in embedded projects without screen.

A Zero+ with built in USB hub, and with one or two of the USB connectors at the end of the board, so a WiFi module can be kept inside the box, and only need for external connectors at one edge.

10\$ would be an ok price, and in large quantities.



Oliver says:

29th Feb 2016 at 10:28 am

For OTG, read Andrew's Blog: <http://pi.gbaman.info/?p=699>



Christian Nobel says:

29th Feb 2016 at 10:41 am

Yes, but it would also be an advantage on the other types of Pi's.



Peter says:

29th Feb 2016 at 1:39 pm

Sozero is far more interesting than pi3.



ting says:

29th Feb 2016 at 9:50 am

Awesone RPi3!!! Cannot imagine what will RPi4 be :-D



pi power says:

29th Feb 2016 at 9:50 am

nice spec bump, my only critique is the lack of a on/off switch on the mandatory new power supply. back to fiddling around with the awkward usb connector everytime i need to reboot it for a sd card swap :(



S Duggan says:

29th Feb 2016 at 12:49 pm

Micro USB power cables with rocker on/off switches have been available for a £1 or two on eBay for ages and easier to get to if you attach your Pi behind a TV. Much better than putting a tiny fragile switch on the board that can be accommodated in a case.



pi power says:

1st Mar 2016 at 8:30 am

yes, i use one for the pi2 . the problem is, they are micro usb but terminate at the other end with a type A usb. you then you need to get a plug adaptor that supplies the correct volts/amps for the usb cable. i recently got a 2.4 amp 5v anker usb plug (~£15 with shipping :/). it will wotk i guess.

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Jim says:

30th Mar 2016 at 12:01 am

This is what I use to turn my Pi on and off –

http://www.amazon.com/gp/product/B018BFWLRU?psc=1&redirect=true&ref_=oh_aui_detailpage_o00_s00



Aditya Nath Jha says:

29th Feb 2016 at 9:51 am

Waiting for it eagerly, hope it's as good as they claim. Want to make a render farm out of a cluster of these, let's see if I am able to do that or not! :D



Samuel says:

29th Feb 2016 at 9:55 am

Happy Birthday Raspberians!



Mr.Hoi says:

29th Feb 2016 at 10:05 am

Pi3 can playback 4k ?



Peter den Haan says:

29th Feb 2016 at 11:38 am

No. Scroll up.



shahid says:

29th Feb 2016 at 10:16 am

never knew so many indian names in the list.
great work guys.



Luk says:

29th Feb 2016 at 10:16 am

What about Gigabit Ethernet, USB 3 and may be a Sata Connection?



Jim Manley says:

29th Feb 2016 at 7:45 pm

Yeah, what about them? The Pi 3 is \$35, it's ~60% faster than the previous model that's still available at the same price, it's 1,000% faster than the original model of four years ago, and every one of those features you listed costs more to include than the upgrades provided within the \$35 price, let alone all of them. The Pi is all about providing the most functionality at the lowest possible price, while satisfying the greatest number of peoples' needs (primarily for students, parents, and educators – everyone else is getting to ride along for the same price). The Pi is not about providing highest-end features that only a few want, let alone need.

Competitors at the \$35 price point already have both SATA and Gigabit, and I suspect



Carlos Coelho says:

1st Mar 2016 at 6:45 pm

they produce far less units. Namely Orange Pi and Banana Pi. So, what's keeping you from buying the competitors and getting out of here, you may ask. The answer is that they have some problems with software support. I am still waiting either Rasp meet my HW needs or Orange/Banana to solve their SW.



Anton says:

29th Feb 2016 at 10:20 am

Please, I have two questions:

– what is the recommended power adapter, if I don't "want to connect power-hungry USB devices"? I mean, if I just plug-in the keyboard, mouse, monitor and have WiFi on, what is the recommended power adapter?

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...having external DACs, like HifiBerry?



Gordon Hollingworth says:

1st Mar 2016 at 6:58 am

There is only one recommended power adapter, the 2.5A Raspberry Pi power adapter. But the power consumption is based on 1A to the processor plus 0.3A to the WiFi plus 1.2A to the USB

These are peak values only but of course you can easily get close to those numbers playing software decoded video for example (youtube on chromium!)



Anton says:

1st Mar 2016 at 7:18 am

Thank you!



mobluse says:

1st Mar 2016 at 12:11 pm

The Raspberry Pi Universal Power Supply is 2.0A, not 2.5A, see <https://www.raspberrypi.org/products/universal-power-supply/>



mahjongg says:

3rd Mar 2016 at 10:13 pm

no, its 2.5A, see it here: <http://uk.rs-online.com/web/p/plug-in-power-supply/9098126/>



mahjongg says:

5th Mar 2016 at 2:55 pm

"–Elsewhere I read that there is "no I2S connector for audio chips any more". Does it hampers the possibility of having external DACs, like HifiBerry?" That is simply untrue, the I2S functionality is unchanged.

What you might have read, and misinterpreted, is that when the model B+ came out the I2S functionality that was on a separate header, was moved to the main GPIO header. thats very old news, and at the time did not mean there was no I2S functionality anymore.



Martina Wille says:

29th Feb 2016 at 10:21 am

Farnell from Element14 sells only for business partners in Germany. The "main" Partner (link over registration, <https://hbe-shop.de/>) doesn't sell Raspi 3. I would have buy one, but the process destroyed my fun, and make me wonder if I want to pay 40€ for a 35\$ board... :/ Maybe you could check your partners...



Günter Kreidl says:

29th Feb 2016 at 9:47 pm

You should learn to compute:

35 USD ÷ 1,0873 (current exchange rate) × 1,19 (VAT) = 38,31 €
 cheapest reseller in Germany today: 39 €
 Where's the problem?



james says:

1st Mar 2016 at 3:36 pm

The affiliated distributor in Holland is Kiwi:

<https://www.kiwi-electronics.nl/raspberry-pi/board-and-kits/raspberry-pi-3-model-b>

I was able to get one next day. (Or at least the Package Tracking says its waiting for me at home).

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you should check Pollin and Reichelt, but they all have ~6 EUR shipping costs.



Andrew Munro says:

29th Feb 2016 at 10:23 am

Congratulations. What a fantastic success Raspberry Pi has been. I am looking forwards to teaching my 8 year old grandson how to program using the R Pi. He is already an avid user of many things computing – and the inclusion of Minecraft on the NOOBS which we loaded onto a Pi Zero that I have set-up for him fired his imagination even further.

As a system programmer from 1966 – spending my whole career in matters IT I fully support the whole ethos of Raspberry Pi. Once again many congratulations on this milestone 4 years and so many models.



LT says:

29th Feb 2016 at 10:24 am

Happy birthday to the Raspberry Pi fundtion ;)

Glad to see a new present for us, you're really awesome !!!

Hope to see a ARMv8/NEON 64bits optimized Raspbian but little afraid of fragmentation and maintenance of a unique distribution for so many devices.



Alasdair Allan says:

29th Feb 2016 at 10:27 am

In the run up to today's launch I sat down and talked with Eben about the new board, <http://makezine.com/2016/02/28/eben-upton-talks-about-the-new-raspberry-pi-3/>. Got some answer to the supply questions people are asking here!



Wolfgang Keller says:

29th Feb 2016 at 10:29 am

Congratulations. Just one question: According to the German IT news website <http://www.heise.de/newsticker/meldung/Raspberry-Pi-3-mit-ARMv8-ist-da-3119692.html> there is currently no 64 bit Linux kernel for the Raspberry Pi 3 (despite the ARMv8 architecture). Is it planned that we'll get one in near future (despite it could even be a little slower). The reason is that I can't wait to play around in AArch64 assembly. :-)



Alasdair Allan says:

29th Feb 2016 at 10:55 am

For now the Foundation is still shipping a single unified Raspbian code base that runs on all of the existing Raspberry Pi platforms, and that means that they view the new 64-bit processor as "just a faster 32-bit core." See <http://makezine.com/2016/02/28/eben-upton-talks-about-the-new-raspberry-pi-3/> for more details.



Wolfgang Keller says:

29th Feb 2016 at 12:24 pm

Thanks for the answer. So I will have to create an additional MicroSD card with some 3rd party AArch64 GNU/Linux distribution that supports the RPi3 well, which will hopefully appear soon.



Robert says:

29th Feb 2016 at 10:31 am

Congratulations for the new Pi 3.

Would also be good that Zero was sold by other sellers because the current sellers do not ship to all countries of Europe.



James Hughes says:

29th Feb 2016 at 11:23 am

Not possible right now due to the limited profits the big resellers can make.

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Hmmph.

When Acorn brought out their Archimedes I was just getting to grips with the BBC Master

When Acorn brought out their RiscPC I was just getting up to speed with the Archimedes.

The original Pi allowed me to almost catch up, with the B+ being not too far away in the distance.

Then 2 B, with its extra cores, disappeared over the Horizon (though the Zero was close enough to recognise, if only I could spot one)

Now, just when I thought there was hope for me, we get twice as many bits to play with.

Effectively a whole new instruction set. Not just over the horizon, but on a whole new Planet!

Can you please slow down a little, let me catch up with at least the back of the queue?



Over-50 says:

29th Feb 2016 at 11:45 am

Some of us are still plucking up the techno-courage to become a newbie: even that is daunting when you can only use written instructions, not videos.



Graham says:

4th Mar 2016 at 7:47 am

From another over-50...

You will never catch up with the flow of devices, so don't bother.

Think of a small pain point in your life that you think you could train a system like this to perform. The money you pay for any of these is so small, it pales compared to the learning you will be taking on to solve your problem. Don't be daunted, dive in buy whatever is available now and make a start. Chances are pretty good anything you can buy will have sufficient grunt to do what you need.

When you have wrung all the learning out of the one you bought, sit back and consider whether you need to upgrade?



Roman Geber says:

29th Feb 2016 at 10:43 am

Wow, very nice. Love the idea of having wifi onboard. The lack of a gigabit NIC is a bit pain point however. Perhaps in the RP4?



Luis Marmisa says:

29th Feb 2016 at 10:45 am

IMHO you should consider the integration of Power over Ethernet (PoE) technology in RPi. One Ethernet port supporting PoE input would be extremely convenient. A second Ethernet port providing PoE output could be interesting too, but this second feature is not crucial. Currently RPi is limited to places where a electric socket is available. PoE would be great for many projects related to control or IoT where systems are located outdoor or in places where the electric power is not available.



James Hughes says:

29th Feb 2016 at 11:26 am

Not possible in the price bracket I'm afraid, and so few people need it that it would increase the cost for a lot of people who have no need for it.



Nick says:

1st Mar 2016 at 4:29 pm

Not a problem at all!

Make custom Ethernet – Power cable. 4 wires should carry ethernet signal, the other 4 – power. End power wires with Micro-USB and ethernet with RJ45 socket. The other end should be connected to wall 5v power supply.



mahjongg says:

5th Mar 2016 at 3:05 pm

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Powering the 5V through hundreds of meters of cable will drop too much voltage in the cable to work reliably, as such lengths of cable have too much resistance, several ohms in facts, and at 1Ampere one Ohm will drop one volt.
But I agree that POE is often over-engineered, and simpler solutions are possible.



azbest says:

29th Feb 2016 at 10:48 am

Please create a high res poster with all the released hw revisions from the past 4 years. It would be nice to have all hw rev variants and color variants (green, blue, red) on the same big poster :)



AndrewS says:

29th Feb 2016 at 4:19 pm

I'm sure it won't be too long until Alex Eames produces an updated version of <http://raspi.tv/2015/raspberry-pi-zero-updated-pi-family-photo>



mahjongg says:

5th Mar 2016 at 3:06 pm

yes, its here: <http://raspi.tv/2016/raspberry-pi-family-photo-updated-to-include-pi3b-29-feb-2016>



Lity says:

29th Feb 2016 at 10:57 am

Congratulations to RPi! I have B+ and 2B, both of which are perfect! I want to buy a PiZero and 3 now! Where can I buy PiZero?



Hopeful_Dave says:

29th Feb 2016 at 11:00 am

Happy birthday :) , but sad and disappointed with the Pi3 :(

I'm unable to use the new version as you've now integrated wifi and Bt.

Unfortunately wifi and Bt give me (and lots of others) severe headaches, and have made me ill for years, so the devices like the Pi and Odroid were a real bonus for me. As I used the Pi instead of a PC for a while it actually helped my condition improve (due to its very low EMR). I much prefer the Pi to the other similar devices I've tried, but I guess for future kit I'll have go back to the Odroid and also find some alternatives (unless you also plan to make a Pi3 A or Zero without wifi/Bt. Pleeese!)

btw: in case you are going to suggest it as an option, the linux / android code (currently) only disables wifi/Bt access, and does not actually turn the devices off. Something I confirmed by modifying a tablet (I initially added a physical switch, but since then I've removed the module completely).

When switch on and s/w enabled – headaches (power usage normal)

When switch on but s/w disabled – headaches (power usage about 5% lower than when enabled)

When switch off or removed – no headache (power usage ~7 to 11% lower than when enabled)

Of course power usage will vary depending upon what you are running during measurement, and whether using a module or a integrated chip, but these were just rough figures for my purpose at the time.

Now, if you were to modify the wifi/Bt Android base code so that it did actually turn it off, I'd be very happy to donate some money for the effort. :)

(and yes, phones are a major problem for me so an android code change would also be an amazing opportunity for people like me to possibly use android phones in the future!)

I live in hope.



Liz Upton says:

29th Feb 2016 at 11:04 am

You can turn Bluetooth and WiFi off – we'll make sure there's an easy interface for you to do that with in our next update.

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thanks Liz. I'm very grateful for you trying and it would be fantastic if it worked. No Android device yet turns it off due to the base code used, so it would have to be an addition to the standard wifi/Bt code. I'll buy one to try with the next release and will let you know how it goes. :)



Jim Manley says:

29th Feb 2016 at 7:56 pm

Sorry to hear that, Dave, and it's the first I've ever heard of that, other than with implanted metal, embedded shrapnel, or electronic devices, but even then, WiFi, cell, and BT produce extremely low-power emanations (albeit, they are prohibited from Intensive Care Units – ICUs, just in case).

BTW, the Zero has no WiFi, BT, or any other high-speed interfaces beyond HDMI output and the GPIO interfaces, much to the consternation of some, so you can use that model without concern ... assuming you can find one :)



Hopeful_Dave says:

4th Mar 2016 at 12:28 am

hiJim. not sure why my earlier reply was not published, but no it's not related to embedded metal. More and more people are becoming sensitive to it, but there is a lack of awareness because some sites seem to remove or hide the comments from those that have direct experience of it. This means those sites directly add to the imbalance of opinion and knowledge slowing down the acceptance and understanding of the problem. Think about the way marketing caused people to ignore for decades the clear evidence of harm from cigarettes. Anyway for those that want to know more google 'EHS' or 'Electrical Hyper Sensitivity' or 'wifi headaches'.



Hopeful_Dave says:

4th Mar 2016 at 12:34 am

itlooks like my previous replies were too long for the site to handle as this published straight away. thanks for the suggestion of the Zero. If I could find one I would buy one, but I'll buy a few more Pi2's if all else fails. thanks for the concern.



andy says:

29th Feb 2016 at 8:14 pm

Just out of curiosity, Dave – did you blind/double-blind those tests you did about how software/hardware switching the wireless off affects your headaches? It can make a big difference...



Hopeful_Dave says:

4th Mar 2016 at 12:51 am

I'll keep my reply short this time. I did a lot of tests including buying an HTC, a Chat, a S5, a few tablets, & 5 almost

identical Iphone 4's.

I've tried 100's of power & wifi apps but none turn wifi or Bt off on any of the android kit.

The Iphones with IOS v4.1 didn't hurt my head, but when upgraded to v4.2 & above did, strongly suggesting that the way the code was implemented was the problem. I only have 1 iphone 4 with v4.1 now, but that is ok to use with wifi and Bt turned off.

BTW: flight mode doesn't turn it off either.



KeyTarum says:

29th Feb 2016 at 11:00 am

Bluetooth and WiFi !!!

That is great news for domotique application.

When a Pi with Gigabit Ethernet and USB3 (or at less a better write/read speed for sd) ?

Answer comments About our thinking About our design

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Benoit Bailleux says:

29th Feb 2016 at 11:02 am

Hello,

It's my birthday today as well, and I'd love to have a new RPI to replace my rather old PI 1 mod B. But the only reseller I can find in France has quite high prices (nearly 50€). Where can I find a list of resellers with prices closer to those in GB or US ?



James Hughes says:

29th Feb 2016 at 11:16 am

Buy from the UK, postage is cheap.



Sunny says:

29th Feb 2016 at 11:02 am

Congratulations.

This is a serious IoT thing .. a serious DIY.

I am sure this is going to open up all new era of remote devices (robots).



Francesco says:

29th Feb 2016 at 11:06 am

Thank you guys!!it's BEAUTIFUL!!!!

I'm only hoping that oracle speed up the devs on a 64 bit optimized JVM with a good support for this new NEON hw...



Christian Holland says:

29th Feb 2016 at 11:10 am

Where is USB3 and/or Gbit LAN ?



James Hughes says:

29th Feb 2016 at 11:15 am

There are alternatives if you need those facilities.



Jim Manley says:

29th Feb 2016 at 7:59 pm

They're on more expensive alternatives, where they belong. This is a \$35 educational computer that, if it suits your needs as-is, then great. If not, a search engine is the feature you need first and foremost ;)



Christian Nobel says:

29th Feb 2016 at 11:10 am

B+price??

I have noticed that the B+ price here in Denmark has increased 25% (!!!) since Friday.

Is that due to production capacity, as mostly all capacity is used for the new model 3, or do we have to face a permanent price increase?



James Hughes says:

29th Feb 2016 at 11:15 am

Noidea why it's gone up – there has been no price increase.



Christian Nobel says:

29th Feb 2016 at 11:33 am

That's odd.

It seems like RS and Farnell are playing their own game, which I see as destructive towards RPi.

Friday at RS the price for the B+ (in bulk) was 145 DKK, today it is 183,75 DKK, a price jump of 26.6%. similar to approx 21.30\$/27.11\$ (price excluding VAT!) – and remember

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Not that 6\$ is a big deal, but to me it seems unfair to the foundation that RS increases their profit so much, without the foundation benefiting from it all.



Liz Upton says:

29th Feb 2016 at 11:40 am

Please feel free to drop them an email and copy me in.



Christian Nobel says:

4th Mar 2016 at 8:22 am

I got this answer from RS:

Thank you for your contact and communication. I apologize that our latest pricing implementation has caused you some frustration and concern.

The timing of the implementation is independent of the Ras Pi 3 launch but coincidentally happened over the same weekend.

RS manage the production of the Raspberry Pis and purchase based on volumes & component availability in the market.

We work hard to optimise costs but sometimes it is unavoidable to not be impacted to component & manufacturing costs.

The launch of the new Raspberry Pi 3 will see a big shift of volume & customer demand move to the new platform.

RS are committed to continue to manufacture & support the legacy products whilst there is sufficient demand & it is profitable to do so.

The Ras Pi A+ & B+ volumes are now much lower than those of the Ras Pi 3.

This results in component cost increases and we've had to pass these on.

There has also been an increase on our Price for Raspberry Pi 2. After Christmas, we had an excess stock & we wanted to reduce the price to move the inventory. This was on a special deal which expired on Monday.

Again, I'm sorry you felt compelled to write your feedback but I'm happy to discuss and take note of your feedback.

This raises some questions, as RS claim they manage the production, but the foundation seems to be unaware of their price policy.

How can it then be that the price for the model 3 at the PiHut is nearly the same inclusive VAT as the price at RS exclusive VAT?

And is there a plan to discontinue the B+, or increase the price even more – this seems to me as a problem, as the B+ in many situations are better suited than the model3, especially due to the lower power consumption?



Liz Upton says:

29th Feb 2016 at 11:18 am

No, the headline price is meant to be \$25. If you shop around you should find it at that price.



Andrew Oakley says:

29th Feb 2016 at 2:52 pm

Here at Cotswold Raspberry Jam we have standardised on the B+ for our tutorial machines, and we have noticed that the B+ seems to have increased in price from £18 to £24 or more over the last six months. As we rely on donations to fund purchases, this represents a bit of a barrier. We've recently started buying "preloved" B+s, provided they have at least 3 months warranty.

As the Pi3 now includes WiFi (we are currently buying RT5370 USB WiFi dongles for £3), the price distinction between the B+ and the Pi 3 is eroding.

An interesting question will be whether the Pi 3 will work off the (supposedly) 2.1 amp USB-built-in-to-mains-wall-sockets that our venue, the University of Gloucestershire, has at every desk. If we have to buy separate 2.5 amp PSUs for each of our tutorial machines, then the pushes the price back out of our reach again. I've ordered a couple

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Christian Nobel says:

29th Feb 2016 at 3:13 pm

"An interesting question will be whether the Pi 3 will work off the (supposedly) 2.1 amp USB-built-in-to-mains-wall-sockets that our venue, the University of Gloucestershire, has at every desk."

If you are not connecting to many peripherals to the USB ports you should be safe.

Imo 2,5A is wildly overestimated, as the model 3 draws around 0,6A when totally hammered.

My guess is that the 2,5A is stated out of experience that most Chinese psu's typically delivers half of what's printed on them, so better safe than sorry.

I am normally using a 0,5A high quality psu for my B+'s, and have faced no problems, even running 24/7.



tim Rowledge says:

29th Feb 2016 at 5:03 pm

I've been running my Pi3 off the same power supply as Pi2s since last August with no problems. I don't hang a lot of USB off it though which obviously requires as YMMV qualifier.



AndrewS says:

29th Feb 2016 at 11:10 am

Happy Birthday Raspberry Pi.

Congrats on the latest Pi 'birth' ;-)



don isenstadt says:

29th Feb 2016 at 11:11 am

simply amazing! Great work! Thanks and congratulations!What wonderful news to wake up to! :-)



kaan okten says:

29th Feb 2016 at 11:11 am

Ram 2 Gb PLS



M says:

29th Feb 2016 at 11:13 am

OK, I've read through this blog post three times and can not find where I can get it on sale. Please help...



James Hughes says:

29th Feb 2016 at 11:14 am

Try the front page, RS, Farnell, Pi hut,Pimoroni, any of the usual stockists.



Alejandro says:

29th Feb 2016 at 11:51 am

Onsale here: <http://uk.kano.me/products/kano-kit> for UK only



Camhur says:

29th Feb 2016 at 12:35 pm

Pi3 is £32, you charge more £88 for keyboard plus some little things?! You crazy! It is Leap Day, not April Fool day!



Gordon77 says:

29th Feb 2016 at 11:14 am

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As others it would be good to be able to switch off the WiFi and BT when not needed.



Alexandre Festas says:

29th Feb 2016 at 11:20 am

How can I Buy it? I want one...



James Hughes says:

29th Feb 2016 at 11:23 am

From any of the usual Pi retailers.



aremvee says:

29th Feb 2016 at 11:28 am

Yes you've made changes over the years in models and their versions, but largely they're still the same. You've been able to keep the best measure of backwards compatibility and show you are still committed to doing so.

The industry sat up and took notice within the first six months. I suspect they're not missing this detail either. Whether its good design to begin with or a business attitude, I don't know, but the success is deserved.



raspip says:

29th Feb 2016 at 11:31 am

I order mine from Pi Hut @ 8.39 and my order number was 72761, my friend in the office just ordered one now and his order was 75723, so if orders are sequential in Pi Hut and if they were all v3 then they are going at nearly 1000/h



Jan Pniewski says:

29th Feb 2016 at 11:33 am

Ordered mine at 9:30 this morning.
Can't wait to try it.



nico says:

29th Feb 2016 at 11:34 am

Congrats!

Looking forward to ordering one.

When will the Pi Zero backlog be cleared? :)



Max says:

29th Feb 2016 at 11:38 am

Ahh, but can it be overclocked...? ;-)

And Happy Birthday!

Great! Will get one of this.



Sze Hau says:

29th Feb 2016 at 11:41 am

Isthe Raspbian come with the driver fro the WIFI and bluetooth? And is the WIFI and bluetooth always on?



James Hughes says:

29th Feb 2016 at 11:44 am

Latest Raspbian has all the drivers, and there will be a way of turning them off if necessary.



Sze Hau says:

1st Mar 2016 at 2:26 am

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JanneMM says:

29th Feb 2016 at 11:42 am

Nice! Will this have support for exfat for noobs?



Goran Blažič says:

29th Feb 2016 at 11:55 am

great stuff, congratulations on the excellent work

although I have to say your selection of sales partners leaves a lot to be desired for us in Slovenia... some don't ship to Slovenia, others only do business with companies, which usually requires jumping through hoops (again, Slovenia... even though it's the EU), ... still haven't been able to get my hands on a Zero, for crying out loud :D

;) still... thanks for your work and keep it up



Mohammed Sadik P. K. says:

29th Feb 2016 at 11:55 am

Great news! 1 GiB RAM is a bit disappointing though.



Jim Manley says:

29th Feb 2016 at 8:35 pm

Ashas been noted elsewhere, not only would that have increased cost (a big no-no for the intended educational market), it's incompatible with the current GPU, and developing the next generation of the GPU is going to be quite expensive (in the high tens to low hundreds of millions of dollars), which means piggybacking on development of a next-generation GPU for a commercial product, most likely.



Embedded Fruit says:

29th Feb 2016 at 11:58 am

Congratulation to the 4th birthday and the new raspberry Pi.

Greetings from embeddedfruit.de



Alec says:

29th Feb 2016 at 12:06 pm

\$35? No, almost \$45 from CPC. Do you sell it cheaper in the USA?



Pedantic of Purley says:

29th Feb 2016 at 1:25 pm

MyCPC catalogue came today in the post at around 9 a.m. The Pi 3 was on the front cover.

£26.38 ex-Vat but including postage. That suggests a selling price ex taxes, shipping, delivery etc. of around \$35 as promised – in the UK at least.

**Micha** says:

29th Feb 2016 at 12:12 pm

A possibility to connect an antenna would be useful nevertheless: a metal-housing or usage in lower positions are impossible when wanting to use these features.

Of course we still can use external sticks – but then we waste these benefits.

**mahjongg** says:

5th Mar 2016 at 3:14 pm

adding an external WiFi antenna, when used with a metal case, is certainly possible. as discussed elsewhere in this blog.

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Seems sad that not all retailers got a chance to stock these.

**bobby** says:

29th Feb 2016 at 12:24 pm

Sosad that your resellers in Sweden sell this unit for 62-63 \$. You should make a rule that stops this kind of over prices.

**Kylix** says:

29th Feb 2016 at 12:25 pm

Here in Italy on rs-online.com, the price is 36€ without VAT ...

**David** says:

29th Feb 2016 at 12:27 pm

Does it run Android? I know the previous RPi's couldn't run Android since there was some missing broadcom driver or something along that lines. So is that still an issue with the RPi 3?

**Jim Manley** says:

29th Feb 2016 at 8:37 pm

Eben has been interviewed saying that Android 6 is well along being ported by a third party (who's doing it on their own dime, AIUI) and the Pi 3's hardware is up to snuff in supporting it if/when the port is completed.

**Ivan** says:

29th Feb 2016 at 12:28 pm

Where you can buy Raspberry pi 3 shipping to Spain . And when a version with USB 3.0?

**Ignacio Ortiz** says:

29th Feb 2016 at 12:50 pm

Hi, I have the original RPi (Pre-ordered and everything) but the idea to have wireless on board and bigger Amp specs gave me an itch to buy another :P

Anyone has any info on wifi speeds?

Are the USB ports able to sustain an external hdd?

Thanks

**James Hughes** says:

29th Feb 2016 at 1:07 pm

Wifi speeds, no official numbers, but anecdotally, as fast as a laptop.

Yes, it can drive an external HDD.

**Attila** says:

29th Feb 2016 at 12:51 pm

Nice Specs, but still no power switch, this not going in to the right direction.



Micha says:

29th Feb 2016 at 1:06 pm

<https://www.google.de/search?q=steckdose+funk&prmd=ivns&source=lnms&tbn=isch>



Hamed says:

29th Feb 2016 at 1:03 pm

ordered and waiting for it :)



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Cheers for the team



Xaspi says:

29th Feb 2016 at 1:30 pm

What about Model A+?

Model A+ continues to be the \$20 entry-level Raspberry Pi for the time being. We do expect to produce a Raspberry Pi 3 Model A, with the Model A+ form factor, during 2016.

It means that you have plans to show other new model of Raspberry Pi 3 this year? Raspberry Pi 3 model B and Raspberry Pi 3 Model A early?



Liz Upton says:

29th Feb 2016 at 1:51 pm

Yes – there will be a 3 A later in the year.



Xaspi says:

29th Feb 2016 at 2:01 pm

Puffff It's impossible know if the next version will be show early or ending the year



Jim Manley says:

29th Feb 2016 at 8:41 pm

Itwill get here when it gets here, as they all have, and the Pi 3B got here unexpectedly early since it's only been 13 months since the last very substantial upgrade. And just where is your series of \$35 SBCs that have sold over eight million in quantity over the last four years that have had legendary reliability and increasing performance? I didn't think so ...



Jerry Wasinger says:

29th Feb 2016 at 1:34 pm

This is a great leap forward! Thanks, and congratulations.



Adam says:

29th Feb 2016 at 1:37 pm

does it support bigger partition than 32 GB?



mahjongg says:

29th Feb 2016 at 9:53 pm

every PI does support >32GB SD-Cards if you use an image burner, or format it to FAT32 before putting NOOBS on it.

The real problem is that most formatters of not format >32GB as FAT, so you need to re-format them to FAT32, or the PI won't boot with NOOBS.

When using an image writer like DD, putting Raspbian on a >32GB card there is no problem using >32GB cards, as imaging it "formats" the card to the required format as it writes the image.

In short >32GB cards are no problem!



Chris says:

29th Feb 2016 at 1:38 pm

Great job! The only worry is that according to CPC Farnell the retail price is the same as the wholesale price. I doesn't help does it?



Fabian says:

29th Feb 2016 at 1:38 pm

Just ordered the Pi 3 and looking for a new power supply with 2.5A. Any recommendations?

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Relax. The Pi 2 is one hell of a machine. The performance increase from Pi 2 to Pi 3 exists but is nothing like the huge bump from the Pi 1 to the Pi 2.

Slap on a RT5730 USB WiFi module (<£5 from eBay) or the official RPi WiFi and you'll probably never notice.

That said, UK distance selling regulations do allow you to get a refund (but not postage) 14 days after you buy something over the web, providing you don't open the box.



Fabian says:

29th Feb 2016 at 3:15 pm

Until now I was working with a 1.Gen Pi B. So the performance increase will hopefully be noticeable.



Jim Manley says:

29th Feb 2016 at 8:44 pm

The Pi 3B should be at least ten times as fast as a first-gen Pi B, and possibly faster, depending on the software used. It will be a **very** noticeable difference! :D



Fabian says:

2nd Mar 2016 at 6:09 pm

The performance increase is insane :D



Oliver says:

29th Feb 2016 at 2:47 pm

What about HNP15-USB from watterott.com? 5Volts, 2.5 Amps, ships from Germany – and they still have Raspi3s on stock!



James Hughes says:

29th Feb 2016 at 5:03 pm

You will only need 2.5 amps if using a lot of high current USB devices and perhaps an LCD as well. Uses about 600mA as standard.



Alex Pring says:

29th Feb 2016 at 1:43 pm

Hooray!!! Sadly I recently bought a pi 2 and now the pi 3 is out. Devistated!!!



mlrd says:

29th Feb 2016 at 1:53 pm

Is the sale going to last a few days, or is it just for one day discount?



Helen Lynn says:

29th Feb 2016 at 2:27 pm

I am not entirely certain whether your question is serious, but at any rate, \$35 is the regular list price (different meaning of "on sale").



Marcelo Pacheco says:

29th Feb 2016 at 1:57 pm

If you don't need the wifi, perhaps consider the Odroid C2, quad Cortex A53, 2GB RAM, gigabit ethernet, quad USB 2.0. US\$ 40+shipping.

For me the 1000 ethernet and 2GB RAM makes the Odroid C2 into a real computer, able to run workstation/mini server type loads, while 100 ethernet and 1GB RAM is too limited.

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Vanfanel says:

29th Feb 2016 at 2:40 pm

Odroid devices suck HARD. Good luck with the only kernel allowing the crappy MALI GPU to work, which is an old 3.4 frankenstein monster.
I won't touch an Odroid (on any other board with MALI) with a 10 mts pole again in my life.



James Hughes says:

29th Feb 2016 at 5:01 pm

If 1GB isn't enough, you need to write better software! You should be able to do the majority of computing tasks in 1GB. Network speed? Well, I've been living on 100baseT for 10 years, still no need to upgrade.



Silviu says:

29th Feb 2016 at 8:50 pm

I would love to have an interface on which I could add very fast ramdrives (sata ?, usb c).
USB 2.0 not very good for swap :(. Is a fast interface planned for Raspberry Pi 4, 5 ... ?



sirkope says:

29th Feb 2016 at 2:12 pm

@Liz Upton

I'm a little bit confused.

Is the GPU doubled and/or overclocked?



Liz Upton says:

29th Feb 2016 at 2:26 pm

It's clocked higher.



sirkope says:

29th Feb 2016 at 5:21 pm

Just because I've ordered mine from modmypi, and they say:
"Gpu -Dual Core VideoCore IV® Multimedia Co-Processor. Provides Open GL ES 2.0, hardware-accelerated OpenVG, and 1080p30 H.264 high-profile decode"
So they might have misunderstood something...



Valaki says:

1st Mar 2016 at 2:05 am

VideoCore IV has always been "dual-core," and it refers the multimedia processor (VPU) part. A different part of it is responsible for the 3D pipeline (QPU). They're the same as before, except clock speeds.



sirkope says:

1st Mar 2016 at 7:00 am

Aha, thx. :)



James Hughes says:

1st Mar 2016 at 10:25 am

There VC4 has a dual core scaler/vector unit which can also do 16 way SIMD processing (16 channels of data processed by one instruction). In addition, there are 12 Quad processors that run the 3D system and some other bits.



ejj28 says:

29th Feb 2016 at 2:21 pm

AWESOME!
Going to order one today!

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Felicidades

Me siento muy contento por el gran salto realizado en esta nueva edición, una recomendación podríamos llamar a las distintas versiones por algún nombre en vez de un simple numero? tal como sucede con el proyecto debian?



kneekoo says:

29th Feb 2016 at 2:29 pm

Happy Pi Day! \o/

I just ordered my Pi 3 from The Pi Hut and I'm looking forward to seeing it in action. :D
Now back to the software side, I hope we'll get some nice improvements on the open source graphics driver as soon as possible. :)



toreki says:

29th Feb 2016 at 2:33 pm

What is the future roadmap? I have 1x RPi1 and 2x RPi2. If you create a stronger RPi (8 core processor, 4GB of memory, maybe sata port), then I wait.



Jim Manley says:

29th Feb 2016 at 8:48 pm

It will be at least another four years before you'll see eight cores, 4 GBs of DRAM, and whatever else you're dreaming of getting ... for \$35 (or less). So, in the meantime, invest in a Pi 3B and have fun enjoying the pretty amazing things it can already do!



Hilda Johannsdottir says:

29th Feb 2016 at 2:34 pm

Where did my comment go?



Liz Upton says:

29th Feb 2016 at 2:46 pm

I'm not seeing it in spam or junk; are you sure you actually hit the "post" button?



Alex says:

29th Feb 2016 at 2:39 pm

I don't yet see the Pi 3 listed on Allied's website. Any idea when that partner will have it available?



Ian says:

29th Feb 2016 at 2:46 pm

Will the 7 inch touch screen work with this model?



Liz Upton says:

29th Feb 2016 at 2:49 pm

Yes: everything is backwards compatible.



Fran008 says:

29th Feb 2016 at 6:44 pm

I have already bought my new Pi 3, but I can't wait to know this: if I insert my Raspbian image from my Pi 2... will it be compatible with the new model? I know you recommend to upgrade and update it to get the new features and capabilities. But if I don't do that... will it be straight compatible? Or will be strictly necessary to update? Thank you very much.



James Hughes says:

29th Feb 2016 at 7:39 pm

Yes, providing you update the image to the latest firmware released today.

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I can't wait to buy one. Only problem is the \$Aud exchange rate is rubbish at the moment. I have a Pi-Top and RPi3 will make a big improvement and release 2 USB ports.

Great effort to Raspberry Pi. You folk really started a huge movement and everyone is copying you. It reminds me of the 1980s when IT was exciting and vibrant. Thank you all for bringing this to a new generation. :-)



Roy Sigurd Karlsbakk says:

29th Feb 2016 at 2:52 pm

Isthe network card still on USB? Any support for WoL?



Shannon says:

29th Feb 2016 at 2:52 pm

They say it's your birthday... It's my birthday too!

<https://www.youtube.com/watch?v=rS7s3Wq2ggk>

Thank you for something new and shinny for my Birthday, although I am sure it's not going to ship by my birthday next week. The only two things I lament are the people who are gonna complain that they just bought a Pi 2. Secondly, the bloatware people who will just use this as an excuse to waste and whine about the poor performance because it's not a 8 core i7, instead of optimizing and making things better. Write for the original Pi, and watch it run! There was nothing wrong with the old Pi's, once they fixed the power regulator. Now, there's just more right! Right?

I love the 100Mb, 1G, MicroSD, USB2 awesomeness that is Pi. I am not sure people think about how complex and inaccessible you could make things by changing stuff too. 100Mb Ethernet was the last copper Ethernet you could easily mess with at the cable level. There's something to think about there...



kyle2k says:

29th Feb 2016 at 2:52 pm

Happy birthday and thanks for your continued great work!

Order placed early this morning.



Has 10 Raspberry Pi says:

29th Feb 2016 at 2:56 pm

2.5 Amps is going to hurt this. You should put jumpers or switches to disable the Ethernet or wifi if possible. Anything to take the power down below 2 Amp unless your goal is to create a market for 3 Amp cell phone chargers...



Jim Manley says:

29th Feb 2016 at 8:58 pm

The 2.5 Amps of suggested power is if you hang hungry USB devices off the four wonderful ports provided as well as run the poor little CPU at full tilt as well as the not-so-poor-little GPU (over 90% of the silicon die area of the SoC) at upwards of 40 million shaded polygons per second (aka "a lot of frickin' polygons!"). If you're just using it for run-of-the-mill desktop-oriented work, one of the existing 1 - 2 Amp power units (with a cable with thick enough wires that they don't act like voltage-dropping resistors) that actually delivers that level of current will likely be just fine, again, as long as you're not

trying to use the fanciest backlit keyboard with a built-in USB hub, a self-heating sandwich, and motorized wheels :)



Mandy Daniels says:

1st Mar 2016 at 12:34 pm

Jim, thin wire on the output of a 5 V PSU is not necessarily a problem. We came across this as a "problem" when changing connectors on some plug-in PSUs to use for a different application and they stopped regulating. i.e. the output voltage rose from 5 V to 12 V. It happened on about 5 of them before we contacted the manufacturer and found out what caused it. They use what is known as a Kelvin connection to feed back the sample voltage to the regulator. In this case they used some very fine enamelled copper wire woven into the power conductors and we were just not heating it enough to burn off the self-fluxing coating. This allows for much greater volt drop in the cable without a

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Nigel says:

29th Feb 2016 at 2:59 pm

Surely the next logical step would be a Zero+, with wifi & Bluetooth. That would be better than a revised A, surely?

Anyway, I've ordered a Pi3 from CPC. Should be here shortly.



Jim Manley says:

29th Feb 2016 at 8:59 pm

Not necessarily ... and stop calling me "Shirley"!



Gizmochief7 says:

29th Feb 2016 at 3:00 pm

Congrats on the new Pi!! I'm looking forward to playing with it. Will Docker be able to run on this ARMv8? As a side note, I really think Docker should come standard on Raspbian. Other future hopes would be seeing an ADC on the pi. Thanks again for all the hard work! :)



Pete Stevens says:

29th Feb 2016 at 3:32 pm

You certainly can run Docker on a Raspberry Pi.

<http://blog.xebia.com/docker-on-a-raspberry-pi/>

However, Docker images are architecture dependent – you can't take an amd64 image and run it on your Pi, you have to rebuild them which limits the usefulness.



raspip says:

29th Feb 2016 at 3:43 pm

I run lxc on my Pi's. The original 256MB can run 2 containers, B+ and zero run 3 no sweat, Pi 2 I manage 5 but they are not that loaded.

If you have IPv6 you can check <https://www.saitan.eu>



Pete Stevens says:

29th Feb 2016 at 4:00 pm

You have no idea how happy this comment makes me – more IPv6 only things.

see also the stats from the Pi3 serving the website,

<http://stats.pi3.raspberrypi.org/>

IPv6 only – we have no IPv4 at all in the hosting cloud



Alfred Marguerite says:

29th Feb 2016 at 3:13 pm

Where can I buy it in the US ,today?

**"Blind Man" Bert Sierra** says:

2nd Mar 2016 at 9:46 am

Yes. I noticed that CanaKit here in the USA sports bare Raspberry Pi 3 Model B boards (no add-ons) as well as "Complete" and "Ultimate" starter kits equivalent to the RPi-2 prior kits with the same names. These are listed as being in stock right now (your results may vary) and no doubt a number of US vendors will post their products and prices within the week.

The CanaKit bare board sells for \$49.95 right now (about \$15 above MSRP), and the Complete and Starter kits are running \$15 over the RPi2-based starter kits as well, but that is what you get if you want one right away on a seller's market until more US vendors come out and announce their prices.

<http://www.canakit.com/raspberry-pi-3-model-b.html>

<http://www.canakit.com/raspberry-pi-3-starter-kit.html>

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**Jeff Findley** says:

29th Feb 2016 at 3:24 pm

I just ordered two so I can use them as additional set top boxes. Having integrated wireless will make them easier to use than the Pi 2 I currently have on one of my TVs (running OpenElec/Kodi).

**Jeff Findley** says:

7th Mar 2016 at 8:33 pm

I received both of my Pi 3s on March 4, so quite pleased. Noticeably faster than the Pi 2 when running OpenElec/KODI. WiFi worked "out of the box" with OpenElec. Quite happy with my purchase.

**Chidi Oko** says:

29th Feb 2016 at 3:25 pm

Can I still use the same case as the Raspberry Pi 2 model B?

**ukscone** says:

29th Feb 2016 at 4:23 pm

yes although the leds have moved it will still fit in a Pi2B case

**Tharre** says:

29th Feb 2016 at 3:29 pm

Someone should update the FAQ:

> 3. WILL THERE EVER BE A BUILT IN WIFI OPTION?

> Unlikely. The SoC does not support native WiFi, and adding an > additional built in WiFi chip would greatly increase the cost > of the Raspberry Pi.

;)

**Jim Manley** says:

29th Feb 2016 at 9:02 pm

FAQ stands for "Formerly Archived Questions", not what you think it does :D

**G S** says:

29th Feb 2016 at 3:35 pm

BAM!!! Built-in wifi at last!

**ejj28** says:

29th Feb 2016 at 3:40 pm

Every place that has the Pi3 in stock is selling them for £30 which is 41 dollars in USD which is 56 dollars in CAD.

Guess I'll have to save up some more. :(



Frank Miller MD says:

29th Feb 2016 at 3:42 pm

Thanks so much. I had no idea this was coming. My son and I will be "upgrading" and my credit card will do its duty ordering TODAY! Thanks ever so much again to your entire organization and team in the UK!



sundaramoorthy says:

29th Feb 2016 at 3:43 pm

I searched for Pi 3 sales in India. No stores shows the sales of Pi 3. When will the Pi 3 comes to sales in India?

I'm waiting for the product :)

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Same here, eagerly waiting for it in India. I have cancelled my previous order for Raspberry Pi 2 Model B from Amazon.in.



Kratos says:

29th Feb 2016 at 3:43 pm

This will drastically reduce the price to get started with a media center! Will any programs have to be ported to use the full functionality of the Pi3?



Jason says:

29th Feb 2016 at 3:44 pm

Where in the US can i buy it for \$35??



Jim Manley says:

29th Feb 2016 at 9:05 pm

<https://www.mcmelectronics.com> and search for stock number:

83-17300 – Raspberry Pi 3 Model B Board

or

<http://www.newark.com/buy-raspberry-pi?ICID=I-HP-LB-feb16-raspberry-pi3>



Matt says:

29th Feb 2016 at 4:09 pm

Uhm this is great, but why is there *STILL* no gigabit LAN, and why only 1GB RAM, still, especially when you look at the specs of the Odroid C2 etc? This seems rather short-sighted.

Onboard eMMC or SSD would have been nice, too, but not as vital.



Jim Manley says:

29th Feb 2016 at 9:12 pm

All of that would be nice, but you wouldn't be getting any of it, let alone all of it, for \$35, especially when you look at the price of the Odroid C2, etc. – that seems rather myopic. The Pi is designed for students, parents, and teachers in the education market, where price is everything, and if you happen to be able to also make use of it, that's great. It's not meant to satisfy every whim of each individual who has their very own wishlist of features that, in many cases, are never really used to their full capability. If you need niche capabilities relative to a rock-bottom-cost SBC developed for the huddled masses, go look in niche market segments and be prepared to pay niche market prices.



Matt says:

1st Mar 2016 at 1:43 am

Wrong – the Pi is for anyone that buys it, and if it STILL hasn't got specs of competing products, people will use competing products instead. Not having Gigabit and not having more RAM is just inexcusable, unless you're a foundation that doesn't ever want to escape from it's safe little comfort zone and be taken seriously?

Did you never consider Apple, and how they were bold enough to add HEADLINE hardware specs and new features, when every other vendor was afraid of doing something "unknown"?

It's time to be BOLD, or to be forever thought of as "The nerdy foundation board with it's 'safe' specifications, and nothing to write home about"

Simple really, when you stop being an apologist long enough to think DEEPLY about its' future.



James Hughes says:

1st Mar 2016 at 10:30 am

Rubbish. By the Foundation charter, the Pi is designed for education, but of course, other people can buy them. Going to gig ethernet and adding RAM would take the price over \$65 which is the upper limit. The same that a few more dollars will do enough to make

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requires a completely new SoC, which means no backwards compatibility, and a complete loss of all the work that's gone in to the present ecosystem.. Which would be inexcusable. So, who is thinking about the future now? It seems the Foundation has thought about this more deeply than you have.



crumble says:

2nd Mar 2016 at 2:06 am

Donot forget why you want to have all of this in a Pi. You buy not only the hardware. You buy long time support and a huge user base. So you can find a solution for most of your problems by typing it into a search engine. And a lot of these solutions are beginners friendly.

If you can solve your problems with some specs and high level answers, other boards my suit you better.

But even if you are skilled enough, you may run into problems with expensive documentations and NDAs. Sadly you cannot get around the patent problem. So we have to live with some limitations, if we like to have a system which is as open as possible. 4GB DDR4 would be faster, but if the GPU can't handle it, we will not get it.

The computer history is full of strange solutions to work around the memory problem. Something like bank switching has to be done by the foundation. You can build a memory hat and write a block device driver, so that it can be mounted for tmp and swap. Not the best solution? Only an evil hack? Yes indeed. But the PCs had to live with such workarounds in their youth and even today, if you have to run 32Bit XP with more than 4GB RAM.

I will need more RAM as well :(

Let me be the first, who complains about the data bus. Am I right, that it is still 32Bit? So Eben will be right, that a 64Bit raspbian will noy increase the performance?

@Foundation: Can we get a brief description of the new hardware architecture, please? This will be a great easter gift for your grown up customers :) It will be nice to understand the hardware limitations.



James Hughes says:

2nd Mar 2016 at 9:36 am

It's a full 64bit machine. AT the moment, though, the supplied Raspbian is still 32bit. There will be some performance improvements going to 64bit, but there are very extensive support costs associated, and the problem that there OS is not backwards compatible with earlier Pi's



Jim says:

3rd Mar 2016 at 1:37 am

Over FIVE MILLION Raspberry Pi's have been sold – how many Odroid's have been sold? I can GUARANTEE YOU that Hardkernel will NEVER REACH the numbers that Raspberry Pi has.

The sales numbers PROVE that Raspberry Pi is EXACTLY what the majority of people want.

If you are so displeased with the Raspberry Pi, then why are you on here whining instead of celebrating over at Hardkernel?



fayce says:

29th Feb 2016 at 4:19 pm

Where in Europe can I buy it for \$35???



Tuncay Goncuoglu says:

29th Feb 2016 at 4:19 pm

I must say I am a bit disappointed. I was hoping the new model 3 would include a gigabit ethernet port and a sata port. These two features are the main two advantages competition has over RaspberryPi. It is unfortunate that this new model doesnt address these points.

Besides that, its good to have a 64bit processor and wireless. Good job (well, kind of) !

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Will an RPI 3 fit into a RPI 2 case?



ukscone says:

29th Feb 2016 at 4:44 pm

yes although the leds might not show properly but it will fit



Ferri Sutanto says:

29th Feb 2016 at 4:25 pm

Its really wonderful news .. Thanks for your hard work :D



Chidi Oko says:

29th Feb 2016 at 4:27 pm

Can we still use the Raspberry Pi 2B cases with Raspberry Pi 3B



Will Haylock says:

29th Feb 2016 at 4:28 pm

How many layers does the PCB have?



fayce says:

29th Feb 2016 at 4:29 pm

Where can I buy it for \$35 in Europe??? Mostly 30E in Europe???

Buying 35 USD you pay 32.2175 EUR

Buying 30 GBP you pay 38.4854 EUR???



Adella says:

29th Feb 2016 at 4:32 pm

Congrats!!!



Yvan T. says:

29th Feb 2016 at 4:49 pm

Good news

Happy birthday

Also if the trend continues, the next generation(s) of Pi's will probably match the speed of Intel desktops.

3.4GHZ quad/six cores (drum rolls) the gap is closing :)



sb says:

29th Feb 2016 at 4:58 pm

Not really. Intel is CISC while ARM is RISC.

Intel do more at each clock. It is approximately 4 times faster than an ARM processor with the same clock.



Yvan T. says:

29th Feb 2016 at 6:20 pm

Well ...

That would probably be good enough for an entry level PC.

Add the 64 bits support on top?

Maybe then MAYBE, games manufacturers will embark also.

That would be a nice sight in a game prerequisites:

HALO minimum requirements:

PC 1.2ghz 1GB ram wind....

Raspberry Pi 3 and up, 1.2GHZ, Raspbian...

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"Also if the trend continues, the next generation(s) of Pi's will probably match the speed of Intel desktops."

it doesn't need to match intel desktops, for most people it should simply be good enough.

And arguably the new Pi 3 B is already good enough for normal desktop use, for example internet browsing now really is good enough, as is using office software and e-mail.

The new A53 CPU also offers a lot of possibilities for further optimizations, for example the better NEON multimedia instructions, and better floating point instructions, and of course 64-bit instructions, can all be used to make current software even faster.



Gregory says:

29th Feb 2016 at 5:02 pm

I want to buy the Raspberry Pi 3 to make it a media player for all video files with a lot of settings simply put any video files and play it at my tv.

Can i do that? And if i can how i can do that exactly?

It is only one time programming or you can programming a lot of times?

How i can find out what is the procedure for programming this product?

And how i can buy it at europe i live?

A lot of thanks for your time and your answers.



James Hughes says:

29th Feb 2016 at 5:04 pm

Older Pi's have been used for media centres for the last 4 years – there is LOTS of stuff out there on the net. Google it. Kodi on Pi would be a good start.



Jeff Findley says:

3rd Mar 2016 at 2:17 pm

I run OpenElec on a Pi2 which is essentially KODI, but there are other solutions as well. It's easy to install from NOOBS, so anyone can get it up and running with minimal effort (just follow the NOOBS tutorial on this site).

KODI runs quite well on my Pi 2. That said, I just ordered two Pi 3's to use for this purpose since the built in wireless and Bluetooth should prove useful. In particular, I'm looking forward to using KODI in areas of my house that don't have any Ethernet cables running to them.



Clive says:

29th Feb 2016 at 5:05 pm

Congratulations on the Pi3...

I'm slightly surprised at one aspect of the changes, however, which is the lack of Gigabit Ethernet. I see you've improved wireless networking, but this still won't come close to the range or performance of cabled Gigabit. Is there a way you would like us to request future enhancements? Could we get some momentum behind Gigabit please?



James Hughes says:

29th Feb 2016 at 5:09 pm

I cannot believe the number of people who have asked for Gig ethernet. I wonder if these people actually get anywhere close to using the capacity of a gig link. I still use 100 with no problems at all.

There is a HW limitation on the SoC's that means even if you added a gig chip, the top speed would still be pretty close to 100baseT anyway, so that's a reason why not. The other is cost.



Graeme Porter says:

2nd Mar 2016 at 2:49 pm

I used to use my Pi as a media streamer. It worked brilliantly for that, but copying a 25GB Blu Ray from my Win7 desktop machine (which has the Blu Ray drive) to my Pi was

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...files were around 10 - 12 MB/sec (around 80 - 90 MB/min/sec). Pretty decent going, considering the Pi was taking the data in through the USB2 ethernet adapter, then pushing it back out the USB2 bus to my external USB hard drive.

The file transfer rate wasn't why I shifted away from using the Pi as a streamer - it was the inability to transcode video. I now use an Intel NUC - great device, but the price difference is huge. My two Pi2s now run a Samba4 Active Directory, a Squid proxy, a Horde groupware mailbox instance, a Cacti network polling/graphing instance, a DHCP service, DNS services, a Prosody IM service, and a Crashplan incremental network backup service. I only really need one Pi for all that but they act as primary and failover for everything except Horde, Prosody and Cacti.



Jeff Findley says:

3rd Mar 2016 at 2:22 pm

I personally don't see the need. I "only" have 60 Mbps Internet service, so not needed for that. Also, I stream video from my file server to a Pi 2 running KODI and am able to watch .iso files ripped from DVDs without any trouble at all. Why do you "need" gigabit Ethernet?!?!



Dimitris says:

29th Feb 2016 at 5:06 pm

Nice but disappointing that you don't pay attention to the sound quality. I was hoping for an improved DAC.



James Hughes says:

29th Feb 2016 at 5:10 pm

There is a software improvement under testing that dramatically improves the sound quality over the analogue port.



Ross Porter says:

29th Feb 2016 at 9:50 pm

Cool. If helpful, I'm happy to be a tester. I published plans for a Pi-based music player for people with dementia. And it would be helpful to not require the USB audio adapter.
<http://dqmusicbox.com/>



Jeff says:

1st Mar 2016 at 4:39 am

You probably want to have a look at the "Advanced users" section in the forums ...

I'm not sure about your use case though (powering big(ger) headphones) - if I remember correctly that wasn't exactly the Pi's strength and probably still won't be with the new driver (I'd be more than happy to be corrected though).



Ross Porter says:

2nd Mar 2016 at 7:30 am

Cool, thanks very much for the tip Jeff. I found what you were referring to and will try it this weekend. BTW, from my earlier testing, a Pi 2 was able to drive the two types of over-the-ear headphones that I have.



jack plant says:

29th Feb 2016 at 5:11 pm

MyPi zero has just arrived, oh well better get back to ordering another pi :-D



Bob W says:

29th Feb 2016 at 5:16 pm

Congrats!!! Future release wish list. USB 3.0 or SATA and 4GB ram. Reason, that would be a great board for a real desktop replacement!! However, I do understand the cost ramifications of that and hopefully you can still do that with a price point of \$35 in the near future.

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Congratulations on completing your fourth solar orbit Raspberry Pi! And Welcome RPi3!! :-) I'd like to get to know you.



Radius says:

29th Feb 2016 at 5:20 pm

I bet the BBC Micro engineers are delighted by the Pi 3. Their legacy lives on! Quite an improvement from a 2 MHz cpu and 16k of RAM. The next Pi should have a cassette interface! ;) Congrats and have a very happy birthday!



David S says:

29th Feb 2016 at 5:21 pm

When will be 64 bit Raspbian available?
P.S. good job



yogesh bansal says:

29th Feb 2016 at 5:23 pm

I don't get why someone still want to buy a Pi2 when Pi3 have more specs and same price.



Jim Manley says:

29th Feb 2016 at 5:42 pm

Eben agrees, see/read his interviews at:

<http://thepodcast.com/the-pi-podcast-16-raspberry-pi-3-special-with-eben-upton>

<http://www.techrepublic.com/article/raspberry-pi-3-the-inside-story-from-the-new-35-computers-creator>



John Pritchard-Williams says:

29th Feb 2016 at 6:56 pm

The Pi 2 still lower power requirements – so that might be something somehow might consider ? It might be better if the different models were slightly differently price-differentiated I guess ? (But then: does it cost them the same to make a Pi 2 as a Pi 3 ?)



Jim Manley says:

29th Feb 2016 at 5:46 pm

OHHHHHHHH ... EMMMMMMMMM ... GEEEEEEEEEE!!!!

They've done it again, folks, but this time, they've REALLY done it! WiFi!! Bluetooth!!! Boot from USB HDD/SSD or Ethernet PXE!!! 100,000 boards a week of manufacturing capacity – no wonder there have hardly been any Zeroes available!

And now the waiting begins ... Christmas strikes again, and again, and again ...

BRAVO ZULU TO THE ENTIRE TEAM!!!



Oliver says:

1st Mar 2016 at 2:21 pm

I beg your pardon, but where is USB Boot documented? I mean, without firmware blob on SD?

(Got mine today. Hooray!)



James Hughes says:

1st Mar 2016 at 2:37 pm

I don't think it is documented yet, although apparently it can do it, along with PXE boot.



Steve Ligett says:

29th Feb 2016 at 5:52 pm

I think that with this model 3, you have come so close. If you would add a bottle opener,

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(either DB-25 or DE-9). Maybe a paper-tape reader/punch.

Thank you.

And many congratulations.



Richard says:

29th Feb 2016 at 6:21 pm

L

Spot on, spot on....



Jim Manley says:

1st Mar 2016 at 10:15 pm

Someone already mentioned the missing cassette tape interface for "high-fidelity" storage :D

Actually, with the headphone jack and adding a USB mike interface, it would be a "small matter of programming" to create a cassette tape interface ... for saving **very** small programs ;)



Cesar Olvera says:

29th Feb 2016 at 5:52 pm

Feliz Cumpleaños.
I'm sure Raspberry Pi 3 it is a great addition for DIY projects.



Jesse Boulderdash says:

29th Feb 2016 at 5:56 pm

When I saw this article I literally face palmed. I thought to myself "Crap now I HAVE to buy that one too". But seriously this is awesome.



Mathieu says:

29th Feb 2016 at 5:57 pm

Manufactured in UK ?



SimonFD says:

29th Feb 2016 at 8:05 pm

s



dz3n says:

29th Feb 2016 at 6:11 pm

All we need is gigabit ethernet!



Jim Manley says:

1st Mar 2016 at 10:18 pm

No, all you need is love ... John and Yoko said so. I think Paul, George, and Ringo were in favor of that, too :D



Szymon Życiński says:

29th Feb 2016 at 6:21 pm

What is max usb current per port and at all? Will it finally handle usb hdd? PiB, Pi2B were not able and that was fatal design flaw.



James Hughes says:

29th Feb 2016 at 7:40 pm

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don't. Have you increased the USB current in config.txt? See forum or google for more information.



Szymon Życiński says:

1st Mar 2016 at 8:47 am

All my 2,5" hdd drives were not able to work with my previous Pi's. Motor was ticking and was unable to start up even with 5V 20W power supply. Currently my pi is powered by 100W 5V PSU together with 2,5m ws2812b led strand. I edited config.txt but even those none of my hdd's was able to start up.

I hope that is fixed in this device. Will see as soon as thePuiHut send this device to me.



James Hughes says:

1st Mar 2016 at 10:20 am

All mine work fine. You MUST set the usb_max_current=1 (? I think that right) in config.txt or they will tick. Check out the forums, and ask for help there, better than here.



Hans Lepoeter says:

29th Feb 2016 at 8:46 pm

usb drive with external psu was always supported (and a lot faster). I still use such a configuration on my original B model.



O E says:

29th Feb 2016 at 6:23 pm

Just ordered my RPi 3. Kudos to the team. Quick question. Does the onboard wi-fi support P2P (WiFi-Direct?)

Thank you



Matt says:

29th Feb 2016 at 6:26 pm

Ordering from MCM Electronics seems to be impossible – even when the pages load (which they often don't), entering shipping, billing info etc. and placing the order brings you to a large product list, NOT a confirmation that the order went through. I have no idea if I ordered it or not!



Max says:

29th Feb 2016 at 7:10 pm

I ordered one this morning from MCM but had a hell of a time getting through for a while.



Jbeale says:

29th Feb 2016 at 10:20 pm

Same experience here with MCM Electronics. But going back, logging in and selecting "My Account" does show it (Order status: "New Order"). No email from them yet.



Marcio Puga says:

29th Feb 2016 at 6:27 pm

This is wonderful news!
Amazing work guys!!



jan1973 says:

29th Feb 2016 at 6:29 pm

Isit possible to use the the built-in wifi as an access point?



thomas says:

1st Mar 2016 at 6:00 am

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marqueemoon says:

1st Mar 2016 at 9:36 am

sowould I



Paul says:

29th Feb 2016 at 6:46 pm

Isthere a 64-bit version of Raspian?



Texy says:

1st Mar 2016 at 7:40 am

Not yet, but there is a feasibility plan in place.



Jim Manley says:

1st Mar 2016 at 10:22 pm

Hey Texy! Your touchscreen is still in daily use!

I think that's why the U.S. Presidential campaign is all in knots ... too many "feasibility plans" and not enough "Git 'Er Done"s :D



Texy says:

2nd Mar 2016 at 7:05 am

Glad to hear it Jim.

Texy



John Pritchard-Williams says:

29th Feb 2016 at 6:54 pm

This has some great knock-on effects I think – like potentially freeing up all 4 USB sockets (now that you should be able to attach bluetooth keyboard/mouse and no need for a WIFI dongle)

Also: It's great knowing that Bluetooth Classic and Bluetooth LE (aka 'smart' , aka '4.x'...) is just there: I hope that will assist the Linux dev community with the further development of the Linux Bluetooth Stack (which is cool already, but a bit patchy in my [limited] experience).

And when the Model-A 3 comes out : that will be so much easier to get going (currently I find you tend to have to swap in and out Wifi Dongles and USB->Serial Connectors in order to build a system and then deploy it) : when you can already connect up a keyboard /mouse/network without using up the USB slot – that will be a huge improvement !

Nice one Raspberry Pi – Happy 4th / 1st Birthday !



Elfen says:

29th Feb 2016 at 7:09 pm

About Memory, RAM and the poor CPU....

The Orange Pi Plus has 2GB on an A20 Arm and is R-Pi Compatible, where you can take the SD Card out of the R-Pi and put it into the O-Pi+2 and it will boot, unlike the Banana Pi which needs modification to the boot sequence code for it to boot. Don't tell me that it can't because it can and has been done with the O-Pi.

I'm not saying that the O-Pi is better, I'm just saying that it exists. And a lot of these Arm CPUs are used in Android Tablets and many of them are in the 4GB to 16GB RAM (for the high end models) sizes. A fast CPU is great. A Multi-Core CPU is even better, but if your system is taxing its RAM then it slows down like a snail with asthma.

There is a program I been wanting to run on the R-Pi. It's called SweetHome3D. It is a Java Program that is a basic and simple CAD system for house design. It can run on a 1GB system that has Java on it (including a few compiled parts to it), but when you place starts to get complicated, it slows down. I run it on my 1.5GB PowerBook G4, and, 2GB Mac Mini (DuoCore intel) and 4GB ThinkPad (also a DuoCore). The program (SH3D) will slow down on the small RAM Footprint systems but continues to run fast with on

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One thing is, some people compiled the program to run on other ARM (Android Tablet) Systems with 2 – 8GB and it runs great on them.

The R-Pi 3 looks like a great machine. But to me it looks like they are only trying to keep up with the competition. When the R-Pi came out, it set a standard. When the Banana Pi came out, it had a Dual Core CPU and 1GB of RAM. The R-Pi came out with a Quad Core Version with 1GB of RAM soon after. Many others came out with 64 bits, built-in Wifi and Blue Tooth. Now the R-Pi3 has 64bits, built wifi and blue tooth. Playing catch up with the competition is not the way to run a computer business. The R-Pi is an excellent device. It should be setting the standard, not catching up with others as I see it. Since the release of the Model B – I have collected over 20 R-Pi units, and I like them and use them all!

Why use a Mastodon of a tower PC when I can use a cigarette box sized computer that has the same power to do the same tasks?



James Hughes says:

29th Feb 2016 at 7:37 pm

Note, that all Pi's are backwards compatible. This means there are limited choices in CPU, memory capacity etc. But its well worth the hit to keep a steady upgrade path, especially when you are talking education.



Christian Nobel says:

29th Feb 2016 at 7:47 pm

Does that mean, that I can be 100% certain that a binary compiled on the model 3 still can run on a model B+ ?



James Hughes says:

29th Feb 2016 at 7:52 pm

That will depend on whether you set any compiler switches that mean the code is specific to the core on a particular model. By default , it will work.



David Radford says:

1st Mar 2016 at 12:10 pm

The Cortex-A53 is still faster than Cortex-A7, even in 32-bit mode. So it's a logical 'small' improvement. Pop out the old core and stick a more recent one in without having to change much else. The fact that it also has a 64-bit mode means there's an option later to go to 64-bit, and people can experiment with 64-bit before then (without having to buy an iPhone!).



Jim Manley says:

1st Mar 2016 at 11:03 pm

Keep in mind that work on this model didn't start when some other fruit-flavored manglings of the ratio of the diameter to the circumference of a circle were _announced_ (many of which still have yet to ship to a real customer, BTW). This has probably been in gestation for I'd guess a couple of years, even long before the Pi 2B was released into The Wild. The feature set is a natural progression of things that the Foundation has certainly wanted, let alone the millions of Raspberry Pi fans Out There. Also, this is a non-profit/charity organization that doesn't have unlimited use of the resources of a publicly-traded corporation the size of Broadcom (although I would certainly maximize whatever use of them I was allowed to access :) Then there's risk –

that four-letter word that "armchair engineers" never have to worry about while they're tsk-tsking about whatever their favorite flavors of features haven't been addressed to their expected sandwiches and wheels level.

If you look reeeeeeally closely at "the competition", there really is nothing of the sort, and I mean well beyond mere hardware. It never ceases to amaze me how many people aren't aware of Digital Equipment Corporation (DEC) cofounder and CEO Ken Olsen's statement, as an electrical engineer, that he didn't know anything about software, except that it sold hardware. The same can be said about support and the community surrounding a product, and in that, no one comes within a femtometer of that which exists for the Raspberry Pi. Heck, it's not so much a community as a family, with all of the celebrations, fisticuffs-angry arguments, and all of the other hoo-hah that families exhibit, including downright love for the products and the people responsible for delivering these little bundles of joy. Where is the school marm on the educational team at ameriDroid? What about Jason Statham heading up the whole shebang as a night job at BINE64 between making movies? Does anyone know anything about anybody?

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I'd say it's quite the other way around as to who's lagging whom – there's a heck of a lot more to a Pi than a fruity name, a fancy-looking spec sheet, and Kickstarter campaigns that often disappoint much more often than they satisfy, let alone are responsible for orgasms of child-like glee and wonder, not experienced since that very first Christmas with all of those shiny presents lying under a tree overburdened with glittering lights, ornaments, and tinsel.

A reporter during WW-II wondered aloud, having just witnessed the taking of an objective by Allied forces under extreme resistance and heavy losses, "Where do we find such men?" A general next to him said, "I don't know, but they seem to find us and just do what needs to be done right when the worse has come to the worst." So it is with the unsung ladies and gentlemen heroes of the Raspberry Pi Foundation – we cannot possibly thank them enough and should never look such a gift horse in the mouth for want of trinkets like gigabit Ethernet, SATA ports, or more DRAM.

They're making amazing progress, considering that very few outside The Community thought that they would ever deliver the first 10,000 256 MB Model B Pii, and that there are over eight million of nearly all much-better models Out There now ... ? Do you have any idea what you're complaining about? I suppose you would have written off controlled, powered flight based on the early airplanes because of their annoying noise, abysmal speed, and lousy fuel economy!



Andy Edwards says:

29th Feb 2016 at 7:14 pm

What about overclocking? I've just had a look and it says "Not available". It's not that I need to overclock but I'm just curious.

Andy



jerry says:

29th Feb 2016 at 7:25 pm

Happy Birthday and thanks for making the Raspberry Pi line better and better. All of your hard work is appreciated. I order my Pi 3 but it shows a ship date of March 8. Hard too wait. I feel like a kid waiting for Xmas to come around.



Jarle Teigland says:

29th Feb 2016 at 7:40 pm

Congratulations on 4 years of awesomeness – forever grateful for leading me down the rabbit hole . . .



Jason says:

29th Feb 2016 at 7:56 pm

I got the email from Pihut at the start of a 2 hours (either way) trip to a 10 hour shift. BOUGHT IT STRAIGHT AWAY. Nice bit of news but my next few shifts are going to drag waiting for it :)

Still, I can play with my Zero till then – once it's finished rendering the Blender BMW27 model. 36 hours estimated this morning so still awhile till I can play with that.

Ah well, I can always occupy myself trying to get blender to run headless on the model B rev 1 – futile maybe but at least it'll distract me for a while.

Definitely the wifi and processor speed upgrades are welcome. Would a 64 bit install give a speed boost over a 32 bit install?



lilunxm12 says:

29th Feb 2016 at 8:04 pm

did you guys move the process to 28nm? Google search says A53 requires at least 28nm process



James Hughes says:

1st Mar 2016 at 10:41 am

No, 40nm.

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lilunxm12 says:

1st Mar 2016 at 11:41 pm

Thanks for replay. I understand that it's probably due to compatibility consideration, but still kind of frustrated, as benchmarks reveal pi3 really runs hot.



James Hughes says:

2nd Mar 2016 at 9:38 am

Cost reasons really – the move to 28nm would require a LOT of work, it's not just a 'change that number to 28' job.



lilunxm12 says:

4th Mar 2016 at 4:33 am

Sorry I'm kind of confused. As bcm2835 exist before the launch of original pi and other vendor(Roku) also used it, I was assuming that broadcom is the primary designer of SoC. But now it seems like you're implying it's the foundation designed the SoC. Originally I thought it would be an easy job as Broadcom such a large ARM processor Manufacturer should've already purchased the reference design from ARM and mastered the really old 28 nm process.



Chip says:

4th Mar 2016 at 10:02 am

lilunxm12, first off in case you did not know or just simply forgot, but Eben and several of the Foundation engineers are EX-Broadcom who did work on parts of the original chip. Then later continued to be paid by the Foundation even after the original SOC to to work directly with Broadcom people to design the Pi2 BCM2836 and now the latest Pi3 BCM2837. Also it was Eben who famously using his good looks convinced the Broadcom powers that be at the time to slap on a cheapo ARM cpu alongside the VC4 for his own nefarious purposes so he could later hijack it from primarily being used as media chip into a general purpose processor unit. So in essence the people at the Foundation has had very a deep hand in development of the SOC.

But the other statement regarding Broadcom having the expertise to do 28nm does not mean they, as a business, will give it away for free as seem to be implied, even with good relations between Eben and Broadcom. Especially since Broadcom has already abandoned the SOC for public commercialization it will take more than just a simple "Pretty Please" to convince them to reallocate the necessary equipment, resources, and certification testings needed to change from 40nm that had been set up to get to 28nm process. With the Foundation being pretty much the sole channel for the chips now, it would have to be the Foundation footing that bill. The Foundation is lucky enough as it is due to the standing relationship, that Broadcom even allows them to continue extending the BCM2835 way past its intended shelf life.



Liz Upton says:

4th Mar 2016 at 12:09 pm

Close (are you also ex-Broadcom?) – but I'd point out that we are not the only (or the largest) customer for 2835, and it's not been abandoned by Broadcom.

We don't get kickbacks or subsidies from Broadcom. Our relation with them is a normal, commercial relationship: we buy chips from them on the same basis as other customers.

Also, we don't think Eben's *that* handsome.



Nabs says:

29th Feb 2016 at 8:08 pm

where can i buy this??



Tony says:

29th Feb 2016 at 8:14 pm

Hello from Germany,

Yeah, the Raspberry Pi 3 with wireless connection is just awesome! Congratulations to the 4th birthday :)

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Elizabeth says:

29th Feb 2016 at 8:16 pm

Will Mathematica still be bundled for free with RPi 3?



Helen Lynn says:

29th Feb 2016 at 10:35 pm

S.



Neil P says:

29th Feb 2016 at 8:19 pm

Got three on their way already – although slight correction to the article – it is actually Raspberry Pi's first birthday.... for the pedantic, anyway ;-)



Glenn says:

29th Feb 2016 at 8:30 pm

This looks like a lot of fun! I think they missed out on a great name. I should be called the Pi 3.14...Ha!



Grogan says:

29th Feb 2016 at 8:37 pm

This is a good move for the Raspberry PI foundation, these new additions should have been on the PI 2.

For the PI 3, is is shameful not to see a USB C port for power at the very least, 2.5A is quite a lot of power on the Micro USB port



Jeff says:

29th Feb 2016 at 8:50 pm

"Friction fit" micro SD card slot [1]? Noooo :(

The previous push-based one was perfect. No need for the card to protrude from cases and you actually knew the card was slotted in properly after the click (unlike with the RasPi 1 for example).

You even acknowledged yourselves that the push-based one was better:

"Micro SD. The old friction-fit SD card socket has been replaced with a much nicer push-push micro SD version." [2]

(I don't really buy the argument from the video – why would you grab the Pi exactly where the SD card slot sits and then also clench it that hard as to accidentally remove the SD card? And even repeatedly?)

Please reconsider this for further updates. Thank you very much.

[1]: <https://youtu.be/wTTa-24whdw?t=1m46s>

[2]: <https://www.raspberrypi.org/blog/introducing-raspberry-pi-model-b-plus/>



Liz Upton says:

29th Feb 2016 at 10:57 pm

Actually, we had a LOT of complaints about the clicky SD cards. A lot (an awful lot) of people found that when handling their Pis they'd accidentally pop the SD card out –

often while they were writing, so causing corruption. Because for so many people the Pi is something they put inside projects and handle a lot, it was a significant problem, hence the change. (Full admission – we didn't foresee that problem either.)



John Pritchard-Williams says:

29th Feb 2016 at 11:36 pm

Agreed; another thing with the 'click-fits' if the spring mechanism breaks (very easy to do – especially for kids) you are left with a slot which will not keep the card in place at all ; so I think a friction-fit is better actually.



Jeff says:

1st Mar 2016 at 3:34 am

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Another question: what are the reasons the FM receiver is "unused" [1]? Legal reasons/potential additional fees? No room for wiring/an antenna connector (maybe a headphone cable could be used with the existing connector as it's done with phones)?

By the way: don't get a wrong impression – I love the Pi project and you're doing great :)

[1] <https://www.raspberrypi.org/magpi/raspberry-pi-3-specs-benchmarks/>



fanoush says:

1st Mar 2016 at 9:49 am

I think there were also horror stories about cards springing out of slot in open area and never found again :-)

Anyone wants to try how far the slot can shoot the card when 'properly' handled? Could be good competition :-)



Nuno says:

1st Mar 2016 at 10:12 am

Personally I don't really like cheap friction-fit slots either :(it's a pity that you changed that, on the Pi2 it was a really nice spring loaded slot, allowing to easily change cards even with the Pi installed on cases with just the card hole and all the card inside... I will really miss it as I often change cards (and never did break it) :(

Btw, also concerning wifi, hope that the "micro small antenna" will do some magic and have a decent wifi performance (else just an rp-sma connector to connect a cheap but good external antenna would be a much better choice IMO), I will wait reviews about that before ordering... if poor wifi then maybe I should wait for Pi5.



PhilE says:

1st Mar 2016 at 10:29 am

Assomeone who has had a Pi rendered useless by an expensive spring-eject SD card slot that failed, I like cheap friction-fit slots. The change was made for reliability, not for reasons of cost (although that helps).



Anton says:

2nd Mar 2016 at 4:19 am

Just that different SD card slot makes a Pi 3 better than a Pi 2. I have lots of problems now with my Pi 2 card slot.



Joe says:

1st Mar 2016 at 6:01 pm

Mysentiments exactly. Everything was an upgrade save for the card slot. Yay to new Raspi 3 ;), BOO! to friction fit SDcard slot >:-(. I now have to carry around a pair of tweezers just to change the SD cards when the Pis are in their PiBow cases.



mahjongg says:

3rd Mar 2016 at 10:39 pm

the simple solution is to modify the cases, so it becomes easy to extract the card. Such modifications will be implemented quickly, especially by pibow.



gazsiazasz says:

29th Feb 2016 at 8:52 pm

How fast is the on-board Wi-Fi?



Taxy says:

1st Mar 2016 at 7:35 am

As fast as the slowest link in a 2.4GHz 802.11n network....



gazsiazasz says:

1st Mar 2016 at 2:08 pm

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Is the SDIO port (or anything else) a bottleneck achieving this speed?



James Taylor says:

29th Feb 2016 at 8:56 pm

Shut up and take my money!

Still can't find a Pi Zero for sale. How long till I can get my hands on one of these?



Sheddylan says:

29th Feb 2016 at 9:17 pm

Some interesting and not (yet) well reported features are interesting (and hopefully true):
ability to boot over Ethernet PXE, and ability to boot from a USB device.

I already use a Pi 2 as a desktop machine; have ordered a Pi 3 as an upgrade to this.



JPW says:

1st Mar 2016 at 10:01 am

Network boot...mmhh that would be new for the Pi – that would be interesting if that becomes possible now...



José Jorge says:

29th Feb 2016 at 9:18 pm

Congratulations and happy birthday!

Does anyone know of any news about hardware acceleration available for video playback applications (mplayer)?



crumble says:

29th Feb 2016 at 9:22 pm

while typing this, you forced me to order a Pi3 ;)

I thought you may stay with the GPU and add more memory by using the sd-io interface for a volatile fast RAM disk, instead of the WiFi or you may have an additional spare lane. Many people mount /tmp, /var/[tmp|log] on a tmpfs to bypass slow sd cards. A dedicated RAM may be a nice compromise and may be more secure. I think that the last big dist-upgrade killed my system because tmp was too small.

But then I suddenly read the most important improvement of the Pi3. It can now boot from a fast USB device. I will give it a try, even if my project has to deal with vibration and glued SD card with a RAM disk will be the better solution.

party on!



Lee Wilkin says:

29th Feb 2016 at 9:36 pm

The only joy to be found at secondary school was outside the classroom (playing sport). Passive, boring lessons given by "painting-by-numbers" pedagogues were something to be endured rather than enjoyed ... then a magical thing happened:-

I discovered the BBC Micro in Computer Science class and was instantly captivated by it. I was permitted to stay behind after the school day had finished (thanks to a kindly Computer Science teacher) so I could explore the Beeb and write my own BASIC programs. I soon wanted my own BBC Micro (like Eben) – but its staggeringly high price made it as unobtainable as a trip to the Moon.

A combination of unlikely events colluded to provide me with my first home computer. I was extremely fortunate to become the owner of an Acorn Electron (the little brother of the BBC Micro). The Electron lacked the Beeb's teletext-like Mode 7, dedicated graphics chipper and a host of useful ports – but it had BBC BASIC and an awesome Assembler. Most of the software available for the Beeb was ported to the humble Electron. I loved playing games (like Repton and Elite); but it was the facility to create my own software that had the greatest impact on me.

It's no overstatement to write that the Electron revolutionised my intellectual development at a critical age. I developed new skills like problem solving, creative and

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Computer programming made me think of the English language in a new and positive way (my reading and writing skills were remedial for much of my childhood and I hated English lessons). Text adventure games stimulated my imagination and transported me into magical worlds. Reading developed into a pleasurable activity and opened up an exciting world of literature that enriched my soul. Poems were now viewed as "extremely optimised code" to be executed on the cognitive computer inside my head.

Those Acorn 8-bit computers (and their attendant magazines) were the greatest teachers I ever had. They engaged, inspired and excited me in equal measure. They opened up new avenues of intellectual adventure.

The thought of a 12 year-old child discovering programming on Raspberry Pi (with its advanced software, hardware and operating systems) and starting down that path of intellectual development gives me a warm glow inside....

I consider myself blessed to have watched your journey from tentative beginnings to today's majestic new computer launch.

Everyone's first computer has a special place within their heart. I feel the same way about all your Raspberry Pi computers. Keep creating the magic, guys!



crumble says:

29th Feb 2016 at 11:22 pm

> The thought of a 12 year-old child discovering programming on Raspberry Pi (with its advanced software, hardware and operating systems) and starting down that path of intellectual development gives me a warm glow inside....

Yes, the gold old days. The new ones are far more improved. Children can now build "intelligent" robots like in Star Wars. When I watched this scene as a student, I thought this is pure science fiction. Something I will never see during my lifetime. Today not even the universe is the limit ;-)

But one thing is still the same. Our Home-Computers were not simply a thing. They had a soul. They had a soul because they were incomplete like us. We had to invest a lot of work, even if we were focused on playing games. With each reset button or printer cable we soldered, it became a part of us or started to develop its own mind. Bagging for attention with heat problems, loose cables or tape heads out of tune.

When we had to move to PCs they lost their soul and became things soon. We bought computer parts in a super market, plugged ready to use parts into it and used it as a tool.

The Pi compared to our old 8 or 16/32 Bit machines seems to have no limits. But there they are. The same limitation as in our youth. You need a RTC, camera, ... ? Then you have to find your own solutions to build your own personal companion. Change the case, find a way how everything can be used at the same time and will not look like a huge mess. We old ones have a smile on our face while walking through this time tunnel. Children may find the soul we are seeking. The grown ups, who are too young for the good old time, do not notice that they live our youth when they fight our old flamewars about graphics and sound again.

Only one thing changed. Instead of neglecting my duty to learn by playing MUDs, I neglect my work by watching lectures about robotics on YouTube ;-)



hans Lepoeter says:

29th Feb 2016 at 9:53 pm

Congratulations. This is fantastic. A good thing that raspberry pi releases seems to sync with my own birthday more or less, I always know what to ask for.



Neil says:

29th Feb 2016 at 10:20 pm

Not bad ... for the money, but it still won't beat my clapped out, clanking old AMD Athlon on any meaningful benchmarks.



James Hughes says:

1st Mar 2016 at 10:36 am

It will beat it on power consumption per benchmark.....

Although really not sure what the point of your post was.

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Meaning that the "10 times faster" hype is actually ten times a very small number. I like the Pi (own several) by I'm just not a fanboy.



James Hughes says:

1st Mar 2016 at 2:36 pm

Er, no not really. When compared with a VAX11/780, a BBC Micro, an Intel Pentium 4, Atoms, early Celerons etc.... People wrote great software on all those devices, and yet all are considerably slower than a Pi1. The Pi3 is 10x faster than a Pi1 (unless you use NEON, when you get > 30x faster).



Neil says:

1st Mar 2016 at 9:26 pm

Mypoint exactly. Your comparing the Pi favourably with ancient machines. Roll forward to more recent history, like an Athlon, and it's off the radar.



James Hughes says:

2nd Mar 2016 at 9:40 am

Which doesn't matter at all! It uses older tech because older tech is cheaper. You want newer tech, it costs more! It's quite simple!

The Pi is as good as it need to be, and still only \$35.



Jim Manley says:

1st Mar 2016 at 11:16 pm

Neil – let's see you put your Athlon boat anchor in your pocket, running off a battery, generating a 40-million-polygon/second 1080p60 video stream, supporting a touchscreen interface, and recording a 1080p camera input, all for 35 smackers. It's OK, I'll wait ... NOT!



Neil says:

2nd Mar 2016 at 11:20 am

Ok, I'll concede that the built-in GPU is a step up from an Athlon. Forgive me, I had an irresistible urge for a touch of trolling. As I said, not bad ... for the money.



Jeff Findley says:

3rd Mar 2016 at 2:31 pm

Does your old Athlon have HDMI output and only use a few watts of power? Is your old Athlon completely silent?

I use my Pi 2 as a "set top box" running OpenElec/KODI and it's perfect for this. No fans mean it's silent. The low power usage means I can leave it on 24/7 without feeling guilty about power usage. And the HDMI output means it works seamlessly with my TV and TV remote (via the CEC standard). It's pretty much perfect for this usage.



K-OZ says:

29th Feb 2016 at 10:25 pm

Meneeds Giga Ethernet =-|



Jeff Findley says:

3rd Mar 2016 at 2:32 pm

Why?



hosaka says:

29th Feb 2016 at 10:27 pm

Bought mine today & bought the Raspberry Pi 2 last year. I run OSMC on mine. Happy Birthday and thanks for a great British built computer :D

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Hey, does this price include the Jam sandwich, or do I have to purchase bread and Jam separately?



Dutch_Master says:

1st Mar 2016 at 12:01 am

It'll only hand you the plate and cutlery, any ingredients are extra. Mind, the bread and butter can be obtained for free with NOOBS. Bon Appetit! ;-)



John says:

29th Feb 2016 at 10:32 pm

Congrats on the new Pi!

Will the official case be replaced to fit the LEDs?



mobluse says:

29th Feb 2016 at 10:45 pm

Does the built-in (and disconnected) FM radio support RDS?

"...its only unused feature is a disconnected FM radio receiver."

<https://www.raspberrypi.org/magpi/raspberry-pi-3-specs-benchmarks/>

https://en.wikipedia.org/wiki/Radio_Data_System



Daniel Costa says:

29th Feb 2016 at 11:29 pm

Great.... 35\$ In Portugal equals 48€ at official providers....

It seems that currency conversion is not the best feature of this new RaspberryPi.



MalMan35 says:

29th Feb 2016 at 11:49 pm

This is amazing! With built in Wifi and Bluetooth you could have it so nothing was plugged into the USBs on the rpi (bluetooth keyboard and mouse, wifi is built in...)



William Farris says:

29th Feb 2016 at 11:51 pm

I would like to purchase one of your computers.

Thank you, William Farris



Jona says:

29th Feb 2016 at 11:58 pm

Congratulations from Argentina, Raspberry Pi sets the standard of cheap, single board computers, due not only to its technical features but also to its great and supportive community. Carry on with the good work and I'm looking forward to see all new software components in mainline linux kernel sources!!



PPYAP says:

1st Mar 2016 at 12:06 am

AWESOME!!!!



TILO says:

1st Mar 2016 at 12:26 am

Holy moly, turn away for a moment and come back to find 64-bits and built-in wifi for the same low price?!! Now I can have an inexpensive 64x development platform carried around in my pocket with which to try things anywhere before implementing on a production system. That is too awesome for words! Thought for sure it would be at least another year or more before being able to up the hardware features at the price point but again the Foundation surpasses anyone's expectations. No wonder we haven't heard

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commitment to education, willingness to personally support and listen to the community, and attention to quality hardware even at low cost is what keeps me and many others coming back for more Pi(e). This is the bar by which others should be compared.



Carbon says:

1st Mar 2016 at 12:49 am

Well I already own 4 raspberry pi 1/2 until today and my expectations were mainly about having gigabit internet in a next release...

100bT is really a bottleneck nowadays as gigabit ethernet is everywhere when you get a device with ethernet and it is more than 3 times the best wifi you get...

so I'm gonna pass this time!



Mike Redrobe says:

1st Mar 2016 at 1:03 pm

You can add a USB gigabit adaptor, and you do get slightly improved performance (250MBps).



Jeff Findley says:

3rd Mar 2016 at 2:33 pm

Why do you need gigabit Ethernet?



Rodney Baker says:

1st Mar 2016 at 1:22 am

Two questions:

1) Can we address the bluetooth as a serial port, and will it accept standard AT commands?

1a) If so, is there a command reference available?

2) Is there provision to connect an external Bluetooth antenna? Bluetooth (and, for that matter, WiFi) don't work too well when the whole thing is inside a sealed metal cabinet. If not, we'll have to stick to the Pi2 and a connectBlue bluetooth module. :(



Axel says:

1st Mar 2016 at 1:33 am

So if i understand well , i could get rid of the ethernet cables and might even improve my connection speed as it won't be shared with the usb ports....

Damn i'm going to have to replace the 2 Pi that hang in my living room.

Congrats guys and girls and have a happy birthday.



Pete V. says:

1st Mar 2016 at 1:45 am

InUSA, sell through Newegg and Amazon and make us all happy while selling a lot more. N-e-w-a-r-k really sucks to deal with. Psyched about Pi 3b but still waiting to get my first Pi Zero. Still not available anywhere in USA. If possible produce more, and faster. Sell

through a wider variety of vendors. Other than that, keep up the great Pi work! Raspberry Pi was a truly GREAT IDEA!!!



Sieu says:

1st Mar 2016 at 1:53 am

I can install OS version 32bit?



Texy says:

1st Mar 2016 at 7:39 am

32bit is the only choice at present.

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Texy – the correct response is, "Why, yes, of *course* you can!" First rule of marketing – answer the customer's question and *only* the customer's question, and then shut the flak up! :D



Texy says:

2nd Mar 2016 at 7:06 am

I'm too honest to be a marketing man ;-)

Texy



Kevin Renner says:

1st Mar 2016 at 1:54 am

Just ordered one – just the thing for the PI tablet I built with the touchscreen accessory last year, looks like it will fit right into the enclosure without modifications, and the USB ports will be free of Bluetooth & WIFI dongles. Wonder if I'll get the PI 3 or the PI zero first?



jaTech says:

1st Mar 2016 at 2:07 am

Why don't you guys release new RPIs on pi day? I think it could make sense.



Jim Manley says:

1st Mar 2016 at 11:40 pm

JATECH – Look forward to the announcement of the Pi Model
3.1415926535897932384626433832795028841971693993751058209749445923078
164062862089986280348253421170679...B

on March 14, 2016, at precisely
1:59:26.535897932384626433832795028841971693993751058209749445923078164
062862089986280348253421170679 ... PM – it would be too early at that time in the
AM, unless we stay up late the previous night. Oh, what the heck, announce it at both
times! :D



G S says:

2nd Mar 2016 at 10:47 pm

A potential reason for not releasing on Pi Day is because if they released on Pi Day, nobody would have it for Pi Day.

Releasing on their 4th/1st anniversary makes sense, and now some people can have it in time for Pi Day.



Derek says:

1st Mar 2016 at 2:10 am

Someone above mentioned that there was no longer support for i2s. Is this true.



Dutch_Master says:

1st Mar 2016 at 11:00 am

No. Eben explained that he foresees a moment when demand for the original RPi1 and the RPi2 will drop to insignificant numbers now that the RPi3 is out, that in the long term they might be shelved. But not in the foreseeable future. The RPi3 is 100% backwards compatible with previous versions, it's just that bit quicker ;-)

The Zero continues to be made, at least until demand drops. The Zero is designed to be a cheap and quick gap-filler in the production schedule, and they can make a lot in one go as the factory can fit a lot more Zero boards on a wafer than the RPi3 versions. For now, they make 100k RPi3 units a week, according to Eben. Demand for the RPi3 will remain high for a while, but once the initial surge is over, capacity can be redistributed and the Zero will get some more capacity. Yes, it's a PITA for those waiting for their Zero, but difficult choices made will always leave some disappointed.



Derek says:

1st Mar 2016 at 3:01 pm

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And as you say, to say it's 100% backward compatible implies no drastic change to previous features.

Great to have built-in wifi now....



Sheldon says:

1st Mar 2016 at 2:39 am

I can't wait to get some change saved up for this. It's powerful enough to run as my home file server and my web server!



MOBIFREE says:

1st Mar 2016 at 2:58 am

Can't wait to get my hands on this.

Have had the original version, but didn't get the 2 that came since, definitely will be picking this one up.



Yue says:

1st Mar 2016 at 3:04 am

that is awesome !



Anton says:

1st Mar 2016 at 3:58 am

That's good news!!



Michael says:

1st Mar 2016 at 4:00 am

Hello, can you hear me now? Uh, no. Okay – next board maybe?



a k p k says:

1st Mar 2016 at 4:30 am

- 1.where to find 2.5A microUSB adapter?
- 2. Can Pi 3 has finally able to plugin at least 2x 2.5" 2TB HDD?



Eric says:

1st Mar 2016 at 5:20 am

The chip includes IEEE 802.11 a/b/g/n single-stream MAC/baseband/radio, Bluetooth 4.0 + HS and an integrated FM radio receiver. It is designed to be used with external 2.4 GHz and 5

Why not use the FM radio?

Eric



yunarsis says:

1st Mar 2016 at 5:49 am

Where can I get it?
International shipping is also possible?



Winkleink says: 1st Mar 2016 at 10:15 am

Check
Pimoroni/The Pi Hut
I believe they ship international and not at extortionate rates.



Sean says: 1st Mar 2016 at 6:02 am

I have to throw the ideas of an external antenna connector in the ring as well. Not sure

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use USB adapters for mm I/Bluetooth, I would consider this an acceptable loss. If more
USB connectivity is required, a USB hub still works.



Dom says: 1st Mar 2016 at 9:55 am

Not including a port for external antenna is a major flaw. There are so many uses –
weather stations, camera traps, tracking, meshed networking, robotics etc that an
onboard antenna is useless for. Opportunity missed, shame.



mahjongg says: 1st Mar 2016 at 12:16 pm

You CAN add an external antenna to a PI3!
There is a small area on the back of the PCB where you can solder an antenna
connector onto.



Jeff Findley says: 3rd Mar 2016 at 2:34 pm

)



Jalindar says: 1st Mar 2016 at 6:20 am

Move to 64 bit hardware is most welcome but you only want to stick to 32 bit firmware if
you want to kill RP-3 based devices in 2038 with "Year 2038 problem".



David Radford says: 1st Mar 2016 at 4:31 pm

32-bit processors can still do 64-bit arithmetic ;-) It's just that silly unix programmers
have picked a 32-bit type to store the time.



clyde Albrecht says: 1st Mar 2016 at 6:48 am

What's in the box? Does it ship with an OS, i.e. Ubuntu etc?



Helen Lynn says: 1st Mar 2016 at 10:45 am

Retailers often sell bundles that include an SD card, but the Pi doesn't come with one by
default, or with any other peripherals or accessories. You can buy an SD card that's
preinstalled with NOOBS, our easy OS install manager, or install an OS yourself on a
blank SD card. Our default OS, Raspbian, and NOOBS, our easy installer for Raspbian
and more, are [available to Download here](#). There's more information on setting up your
Raspberry Pi on [our Help page](#).



JATIN GANDHI says: 1st Mar 2016 at 10:11 am

Eagerly waiting it to be available in India..



JATIN GANDHI says:

3rd Mar 2016 at 5:34 am

Ordered yesterday (2nd March)..., expecting to be arrived by Monday (7th March)..



zaw ye says:

1st Mar 2016 at 10:34 am

How can I buy ?

I'm from Myanmar

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You'll find our distributors linked from our [product pages](#); they offer international shipping and/or have local resellers. Independent resellers will also usually ship internationally, and your favourite search engine will find these for you.



Jake says:

1st Mar 2016 at 11:35 am

Nice I ordered mine from element 14. Can't believe I was lucky enough to get it from the first batch. It's time for my R Pi 2 to meet it's bigger brother. Hopefully, I can do more CPU intensive tasks with on Raspbian now.



Greg Macaree says:

1st Mar 2016 at 11:53 am

4 years ago today I was waiting for my first Pi to be delivered, several more have since found their way into various uses around the house – the Pi3 that arrived this morning will soon have a role too! (not sure what yet!) Thanks very much to the RPI Foundation & team for keeping a middle aged geek very happy! :-)) First challenge is to figure out how to get PXE boot working...



Mandy Daniels says:

1st Mar 2016 at 12:00 pm

Nah, I'll wait for the Raspberry Pi 4, thanks. It'll be out next week with the speed these guys work at ;)

Seriously though, great work guys and thanks. This is a game changer.



Ian says:

1st Mar 2016 at 12:09 pm

Is the 3.5 audio out improved yet? Or will I still need a dac for quality audio(I'm using max2play)



Pete says:

1st Mar 2016 at 2:40 pm

I heard that there has been a change in the audio? .. but I don't know all the ins and outs ... could some one help? I've got a phat dac will it work , will I even need it? thx



Jeff says:

3rd Mar 2016 at 11:20 pm

An updated audio driver is in the works (not only for RasPi 3).



Pete says:

5th Mar 2016 at 12:39 am

Thanks for the tip Jeff ... I'll keep an eye out for that!



Joseph says:

9th Mar 2016 at 8:50 pm

I'm very interested in this improvement, for my project <http://www.samplerbox.org/>
Do you have a link for this? For the in-progress new audio driver?
Cheers.



Jeff says:

11th Mar 2016 at 1:19 pm

Have a look at the "Advanced users" section in the forums. Nice project :)

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Doyou need the B(+) model by the way? The A(+) should need less power, as far as I know a RasPi 3 A will be released, too. Also, USB booting might be of interest to you – in case this frees up the (micro) SD card slot.



Simon Mandy says:

1st Mar 2016 at 12:29 pm

Hello,

I am pi fan. Having all the version they have sold so far. Running my personal website on the pi (512 Mb version) for last 3 years.

In the new pi, since its 64 bit can it run regular 64 bit applications?

http://www.splunk.com/en_us/download/splunk-enterprise.html is what i am particularly interested splunk-6.3.3-f44afce176d0-Linux-x86_64.tgz



David Radford says:

1st Mar 2016 at 3:25 pm

That's x64 (PC) not 64-bit ARM I'm afraid.



Motte says:

1st Mar 2016 at 12:47 pm

Assurdo! Vai così scecc :D grandissimi!



Peerinckle says:

1st Mar 2016 at 12:58 pm

I ordered one, they said I have to wait :-< too many fans



spock says:

1st Mar 2016 at 12:58 pm

eben stated in an interview (i think the video interview with make magazine) that this is the end of the line for the current SOC.

further bigger improvements (more ram, sata, gigabit lan,...) won't be possible.

so this means the raspberry pi 4 won't be backward compatible? and it will take much longer to develop it? 3 years? :)

what about the future of videocore? will the videocore 5 (or its 3d part only) ever see the light of the day?

i am looking forward to the model A 3. :) will it have less ram? what other limitations?



Jiten says:

1st Mar 2016 at 1:02 pm

Where can I buy it in India?



Andy says:

1st Mar 2016 at 1:33 pm

WAAANT!!!

Even so, at my age, I shall be in "Landfill" before my original Pi...



spatieman says:

1st Mar 2016 at 3:02 pm

ok, and what about ram ??

1GB or has it more ??



EssEffDee says:

2nd Mar 2016 at 11:01 am

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Paberg says:

1st Mar 2016 at 3:07 pm

How can we use 2.5A in that usb connector? I think it supports only 1.8A

[http://www.molex.com/molex/products/family?](http://www.molex.com/molex/products/family?key=usb&channel=products&chanName=family&pageTitle=Introduction&parentKey=usb_products)[key=usb&channel=products&chanName=family&pageTitle=Introduction&parentKey=usb_products](http://www.molex.com/molex/products/family?key=usb&channel=products&chanName=family&pageTitle=Introduction&parentKey=usb_products)). Or I'm wrong?

Yben says:

1st Mar 2016 at 7:42 pm

2.5 Amps for the whole config = pi + all attachments,
not only the usb ports or 1 usb port !



Paberg says:

2nd Mar 2016 at 1:15 pm

I mean the usb port for the power supply. It is supposed to support 2.5A, but I think it
does not support it.



Ralph Corderoy says:

1st Mar 2016 at 3:42 pm

Does the BCM2837 fix the earlier Pis' I2C clock-stretching bug?

<http://www.advamation.com/knowhow/raspberrypi/rpi-i2c-bug.html>

dan3008 says:

1st Mar 2016 at 5:21 pm

I wonder, with the built in wifi and/or bluetooth, do you think it would be possible to
cluster a collection without the need for an external hub (since most wifi chips can
become a hotspot)?



LC says:

2nd Mar 2016 at 8:01 pm

Yes follow one of these steps on the controller node:

<http://elinux.org/RPI-Wireless-Hotspot><https://github.com/ghoulmann/RasWAP>

Now you are ready for a hassle free n-node cluster with barely a cable except for the
power cords. Also with the new 64bit cpu, anyone at home or school can now do some
great learning about high performance computing that could translate to those job
opportunities. And for only \$35 a pop that's simply amazing.



Ronny Ceballo says:

1st Mar 2016 at 5:22 pm

Congrats from Cuba! I've been using the Raspberry Pi 2 since it's release (got it in US).
Keep the good work!!!



Toby says:

1st Mar 2016 at 5:44 pm

I have a raspberry pi infrared bird box. It currently uses a raspberry pi 2. Should I upgrade it to a three?

bit.ly/birdbox2



Dutch_Master says:

2nd Mar 2016 at 2:34 am

If it works as you want it, no. In fact, it's a good idea not to upgrade, as the RPi3 needs more power than the RPi2. More power means more heat, not much, but still, and that might instigate unintentional behaviour from local wild life ;-)

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Ah, this is gonna be epic (:

My main RaspberryPi is about to be permanently become a PipBoy prop so I needed a new one to replace it, so this is perfect timing! (:



henningh says:

1st Mar 2016 at 7:12 pm

i saw it on a web shop!

54€ i need to buy it now i was planning to buy pi2 but now NO!!!!

i want 3!!!



Peter Jones says:

1st Mar 2016 at 8:24 pm

My two arrived today. Thank you for the team for the development and all the other work involved.

My only area where I feel a big mistake has been made (as others have also said) is with the friction fit SD slot, especially given the official comments when you moved to the push and click type.

Thanks anyway



mahjongg says:

1st Mar 2016 at 8:59 pm

It's called progressive insight.

The "ejecting" card-holder did not suffice, too many complaints.



Chris says:

1st Mar 2016 at 8:25 pm

Within some hours there is none left to e-shops! How could we buy one when everybody is out of stock. Why there was not enough stock even for a day sales?



Alan says:

2nd Mar 2016 at 12:50 pm

Still over 5000 RPi 3 boards in stock at cpc.farnell.com



Gordon Freeman says:

1st Mar 2016 at 8:43 pm

RPi 3 confirmed



Bill Throsby says:

1st Mar 2016 at 8:44 pm

Still no A2D a BIG mistake – would have done this before Bluetooth!!

If a Pi had A2D why would anyone bother with Arduino ?



Fester Bestertester says:

1st Mar 2016 at 9:49 pm

Seconded! A2D would give audio _IN_ , a vast usability and versatility leap up. This has been a lack since day dot, sorely disappointing since the Pi is based on 'smart-phone' tech, and don't they have a microphone? Real estate for a 3mm jack could be an issue? or pads somewhere to wire one in outboard? Stereo line-in or mono mic configurable?



Dutch_Master says:

2nd Mar 2016 at 2:40 am

Does the chip actually *have* analogue inputs? If not, you're talking about adding a converter chip, that takes real-estate on the PCB and a whacking big proportion of cost, compared to the current version. So that's a no then :-\

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Bill Manley says:

21st Mar 2016 at 3:02 am

Sorry, but this is not a priority for 99% of users. If you want an analog(ue) input port, use one of the very nice USB ports that has been freed up by the new built-in WiFi (MUCH more useful) and plug a USB analog(ue)-to-digital converter into it – DONE!

Or, if you're feeling adventurous, you can improve your knowledge of hardware and software, wire up an R-2R ladder circuit to some of the GPIO pins, and write a little Python using the applicable libraries – DONE!



Mandy Daniels says:

1st Mar 2016 at 9:37 pm

RSState the following in their description of the Pi 3:

"The Official Pi 3 Power Supply Unit is for the Pi 3 board only. The power supply unit is not for general purpose power supply."

What a weird thing to say. I wonder why this is. Something to do with approvals or CE marking? Even that would not make sense to me.



Gordon Hollingworth says:

1st Mar 2016 at 10:06 pm

Not sure,

One problem that may have conflated this is the fact that there are many 5.2v power supplies but this is not safe to be used with 2835 based Raspberry Pi computers (rev1, rev2, A+, B+ or Pi zero)

The maximum voltage of 5.2V +- 5% with ripple voltage takes the maximum above the safe maximum voltage on the 2835 device. So we have specifically tailored the Raspberry Pi power supply to be safe for older devices as well as being powerful enough for Pi 3

Gordon



Christian Nobel says:

2nd Mar 2016 at 11:27 am

But as far as I understand, the protection TVS diode (D5 part #SMBJ5) on the B+ should deal with over voltage?

As I see it, if no peripherals are connected to the model 3, a reliable 1A should be sufficient, as the max current drawn is 0,7A at boot.

Of course, if one connects USB disks it is another story.

Also, is it possible to back power it through the USB port?



Jeff Sadowski says:

1st Mar 2016 at 10:14 pm

Can I plug in a VGA monitor to the HDMI adapter? In other words does the HDMI output include both digital and analog?



Jim Manley says:

2nd Mar 2016 at 12:12 am

No, but you can get an HDMI-VGA converter cable that transforms the HDMI digital signals to much lower-resolution VGA analog signals for around \$4 – \$25. Get one known to work with the Pi's HDMI output, e.g.:

<http://www.amazon.com/gp/product/B007PLL4CK> (\$3.48)

<http://www.amazon.com/niceeshop-Adapter-Converter-Laptop-NoteBook/dp/B007KFVQXI> (\$5.49)

<https://www.pi-supply.com/product/hdmi-vga-converter-raspberry-pi/?v=7516fd43adaa> (£10.00)

<https://www.adafruit.com/products/1151> (\$18.95)

<http://www.adafruit.com/products/1151> (\$18.95)

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<http://www.adafruit.com/products/1151> (\$24.99)

NOTE: I have only used the Adafruit adapter, with all models of the Pi successfully – your mileage may vary with other products listed and I cannot guarantee compatibility – see customer feedback/ratings.



Jim Manley says:

1st Mar 2016 at 11:27 pm

Eben – you'd better add to the credits list Mooncake, Babbage the Bear, and a certain young lady who's made this Community what it is, us old-fart curmudgeons, young whippah-snappahs, and all! :D

Shipping confirmation of a Pi 3B just received from MCM Tuesday afternoon, a five-hour drive from here, so it should arrive by Thursday – two weeks from now while I'm in SillyCon Valley for our next Jam there :(

Oh, yeah, the first Raspberry Jam Nashville will be held on April 2nd (yes, 2016, smartypants – I call it April Fools Day for Us Procrastinators ;) at the Nashville Technology Council's brand-new event venue that includes a full-wall projection screen, air hockey tables, a soda-jerk style snack bar complete with red vinyl and chrome round seats, and room for hundreds! You, Liz, and anyone from the team, come on down, ya'll heah? :)



Meicsy Najoo says:

2nd Mar 2016 at 1:10 am

Very keen to try it!



Dutch_Master says:

2nd Mar 2016 at 3:45 pm

Safe to say there's well over 100.000 others feeling the very same about this ;-)



Victor says:

2nd Mar 2016 at 2:12 am

Android please!!



JimiDivi says:

2nd Mar 2016 at 8:09 am

the only reason i want android for it is the mini Vmac II app :)



Manny says:

2nd Mar 2016 at 6:56 pm

You don't even need Android if you are comfortable following commands to get vMac running for the Pi:

<http://misapuntosde.com/post.php?id=249>


I want to purchase this Rasphery pi3 new version, send me web link to place order. I

 **KORUPOLU VENKATA SUBBAIAH** 2nd Mar 2016 at 5:38 am

says:
belongs to India, hyderabad. Also inform me the place at which i will get this.

 **JimiDivi** says: 2nd Mar 2016 at 6:51 am

i only found about about the thing called the Raspberry Pi a few weeks ago when i found Lakka linux to use on an old PC i have, and seen its also compatible with this thing called a Raspberry Pi, i went to see what this thing is online and liked it straight away, then BANG the day b4 my pay day the Pi 3 comes out, i ordered it and its in the mail :)

 **Alfred & Julia Genth** says: 2nd Mar 2016 at 7:27 am

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 **Dutch_Master** says: 2nd Mar 2016 at 3:42 pm

Happy birthday then :-)

 **Jayton** says: 2nd Mar 2016 at 8:21 am

Just curious if any of you luckys who had spare cash on hand to get the Pi 3 try OpenElec on it yet. If so how is the response and playability of HD streams compared to the Pi 2. And is the built-in Wifi working with OpenElec and stable?

 **Nick** says: 2nd Mar 2016 at 9:39 am

Didn't tried it yet. But @Liz confirmed that Wifi goes to sleep mode and they will have a patch for it soon.


 **Tanyon Br.** says: 2nd Mar 2016 at 10:09 pm

Itappears currently openelec are linking to the Raspberry Pi2 images to use for the new Pi3. But I wonder if it all was recompiled for full 64bits now and maybe even slip in the new OpenGL code if there would be even more performance boost and make the Pi the most awesome media platform.

So how about it anyone out there with spare cycles up to the challenge to download the source and try it. And upload the image for all to test. :) Or maybe Gordon and James are working on it already with the Slice for the new Pi CM3 – you guys have any insights?

 **Nirmal** says: 2nd Mar 2016 at 8:42 am

Congratulations !! You have changed the way I do DIY.

 **Trevor Harris** says: 2nd Mar 2016 at 10:46 am

Please consider adding wifi and bluetooth to zero. Adding a wifi dongle and micro usb adapter more than doubles the prize of the zero.
Congratulations on the rpi 3. I have ordered mine. Maybe for the next release you could add 4k support.

 **James Hughes** says: 2nd Mar 2016 at 1:26 pm

4ksupport (encode/decode) would require a completely new SoC, the VideoCore4 is not capable enough. It already can just about do 4k display, at 15-25fps. See forum for details.

Adding wifi and BT to the Zero would increase the price, perhaps not as much as adding as USB devices, but at least a \$1 or 2.



Marvin says:

2nd Mar 2016 at 11:04 am

Good news! But i've been disappointed about ram.



JimiDivi says:

2nd Mar 2016 at 1:21 pm

me2

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with 2GB we could have just ran windows 10 for the xbox app on the Pi for the bedroom



Dutch_Master says:

2nd Mar 2016 at 3:40 pm

The RPi isn't, nor ever has been, designed as an Xbox replacement :-\

And who in their right mind runs Win-10 (or any Win-OS version) anyway these days :-P



JimiDivi says:

2nd Mar 2016 at 11:29 pm

i run every OS i don't pick and choose if it's cool or something



JimiDivi says:

2nd Mar 2016 at 1:22 pm

<http://www.ebay.com.au/itm/141817835111> just got that ... a \$60 midi music keyboard, i think my Pi will love it :D



Non says:

2nd Mar 2016 at 2:06 pm

Nodisplay port 1.2?



Zhang Hua says:

2nd Mar 2016 at 3:11 pm

How can I buy it in China?



Dutch_Master says:

2nd Mar 2016 at 3:37 pm

Purchase from RS, Farnell/element14, Adafruit or the Pihut. Just like anywhere and anyone else :-)



Victor says:

2nd Mar 2016 at 3:38 pm

For those interested, the Pi3 is already up and flying

<http://diydrones.com/profiles/blogs/first-flight-with-the-raspberry-pi-3>.



Dee says:

2nd Mar 2016 at 5:43 pm

With the RPi3 in an official RPi3 case how can I remove a microSD card without using tweezers?



Matt says:

2nd Mar 2016 at 8:51 pm

That's my main issue with it as well. The spring loaded slot was way more useful, and can only have cost a couple of pence more.



G S says:

2nd Mar 2016 at 10:39 pm

The creators of Raspberry Pi have said in a forum post that the change was not originated by cost. Rather, they were having reports of issues from some people who would pick up and move around their Raspberry Pis, and the microSD cards would slowly fall out and get lost. They said that the only reason they chose the friction-fit was because it holds the microSD card more securely.

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microSD card hole to make it easier to insert and remove while inside a case.



Dee says:

2nd Mar 2016 at 11:20 pm

I have the official RPi3 case and in no way is it easier to remove a microSD card.

Yes, the size of the microSD card hole has been increased below but without the click in/out there needed to be more space above the card.



G S says:

3rd Mar 2016 at 12:49 am

Element14 is selling a revised Official Pi Case for the Raspberry Pi 3 on their website. I was talking about that case.



Christian Nobel says:

3rd Mar 2016 at 8:26 am

I do normally use these cases (I hope I do not upset anybody by linking):

<http://www.banggood.com/ABS-Case-For-Raspberry-Pi-2-Mode-B-Raspberry-Pi-B-p-980729.html>

It is by far the best case I have ever seen for the RPi, and there is enough space to grab the SD card with a pair of tweezers.



Dee says:

3rd Mar 2016 at 1:03 pm

@GS

Yep, that's the one I've got. The hole for the card slot seems to fit around it better with no room to accidentally push the card through a gap instead of the slot.

@Christian Nobel

The RPi3 fits perfectly in the RPi3 official case and it's easy to assemble/disassemble but it seems the friction fit slot is ideal for using without a case.

I just want to be able to safely remove a card without having to resort to tweezers/pliers or added sticky tape to cards.



G S says:

3rd Mar 2016 at 3:26 pm

@Dee

In that case, we are makers. A potential solution would be to glue a small handle onto the microSD card to grab it more easily. Or you could cut the case to make the hole bigger with an X-Acto knife.

Not the best solutions, but they work.



Alexander says:

2nd Mar 2016 at 7:19 pm

Good news!

It is a pity that there is no second Ethernet, SATA and more reliable power connector!



G S says:

2nd Mar 2016 at 10:43 pm

The creators of the Raspberry Pi have said that the processor the Raspberry Pi uses does not support SATA at all. Changing the processor to allow SATA would make the Raspberry Pis no longer backward-compatible and waste the last 4 years of work on the Raspberry Pi in the software aspect. The power connector was unchanged because micro USB is the standard for all the Raspberry Pis and most Android smartphones, so it wasn't changed so as to keep backward-compatibility. There is no second internet or Gigabit internet because most people would have no use for 2 Ethernet jacks, and Gigabit internet requires way more parts to make it work on the Raspberry Pi. If you need more Ethernet ports or Gigabit internet, a \$10-20 USB Ethernet plug works fine.

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To add to the previous reply...

Choose the right tool for the job.

-Raspberry3 for desktop, programming, 3D gaming, etc (all but SATA/networking needs)

-Raspberry1 for electronics (it will short and you'll need a new one) and wired IoT as well as mediaplayback, because cheaper and it does the job.

-Bananapi as fileserver (NAS) or the 4-ethernet port version as firewall. You can use a SATA splitter with a bananapi, but you'll get a second banana for almost the same price.



Matt says:

2nd Mar 2016 at 8:48 pm

Been playing with one for a day now, and the speed difference is very noticeable. One thing though, how come the SD card slot has been changed? The spring-loaded one on the Pi2 was way better.



Jeff Findley says:

3rd Mar 2016 at 2:42 pm

In my opinion a vocal minority was complaining. Some of the spring loaded version failed, resulting in an unusable Pi. Other users were complaining that when they tried to move their Pi (apparently while it was running), they would sometimes accidentally eject the card, corrupting the data on the card. Still others were complaining that ejecting the card would cause it to fly across the room never to be found again.

I personally prefer the spring loaded version. On other devices I have without the spring, it's very hard to get a grip on the card to pull it out of the slot. :-{



André LAGUERRE says:

2nd Mar 2016 at 10:01 pm

Always funny to read "now on sale for \$35"...

Never see in France at this price, regularly at 45 Euro !



crumble says:

3rd Mar 2016 at 8:43 am

Prices in US\$ are without tax.

I got mine in Germany for 40 Euros.

Had not much time to test it, but it is really fast. The last dist-upgrade improved the performance for RDP even for the Pi2. With the Pi3 the mouse pointer move now smooth, no delays when opening menus. Scrolling PDFs is fun.

If the jpeg and png libraries are not compiled against NEON, we may get in the next few months a nice desktop system for small tasks.

Beside the amount RAM, I see only one problem left. I want M3 mounting points. England, stop using strange units as long as you are in the EU! There is no source for M2.5 distance screws in the civilised world :-/



Nick says:

3rd Mar 2016 at 9:18 am

Where did you get it?



crumble says:

3rd Mar 2016 at 10:21 am

<http://www.reichelt.de>

I was surprised to get one. Normally I am not the lucky one who get his Pi in the release month.



Nick says:

4th Mar 2016 at 2:52 pm

That's 45.50 EUR with shipping, right? Kinda expensive for \$35 computer...
German resellers prices are disappointing.

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Where can I purchase it in India?



eagle275 says:

3rd Mar 2016 at 12:02 pm

While I'm happy reading this ...

Is there any chance you will upgrade Raspbian to Stretch base in the near future? – Or at least thoroughly check your upgrades .. as of now you broke ssl [missing certificates from ca-certificates] for some of the software I use,
thank you



Steve Chizmas says:

3rd Mar 2016 at 12:12 pm

It would be great if you would better review the list of vendors that you give these 'first day' shipments to! I purchased a Pi3 from one of the companies that you listed (MCM). They took my CC #, but I have not had an update since! I have emailed customer service each day with no response. No shipping info yet, no nothing – except my card information...



Ziemek says:

3rd Mar 2016 at 2:38 pm

So it will be working with camera module mentioned here:
<https://www.raspberrypi.org/products/camera-module/>



Liz Upton says:

3rd Mar 2016 at 2:42 pm

S.



Steve says:

3rd Mar 2016 at 3:12 pm

Update- finally reached a live person at MCM who told me that they ran out of Pi3s in a couple of hours on Monday- but they left them listed as in stock and allowed purchases to continue. The site TODAY still lists them as in stock for some varieties and shipping soon for others. She instructed me that they are actually on backorder, but MCM is not contacting customers with any updates or info about those delays. Again, I wish the Raspberry Pi organization would choose their re-sellers more carefully! MCM finally let me cancel that order today. A CanaKit that I ordered from Amazon yesterday has already shipped!



Michal says:

3rd Mar 2016 at 6:54 pm

Great! I really need to upgrade from my Raspberry Pi 1...



David says:

3rd Mar 2016 at 7:01 pm

Is it possible to have one without wifi or bluetooth?
Does it come with HDMI, I see no mention of it.



Liz Upton says:

3rd Mar 2016 at 7:41 pm

Yes, there's HDMI.



Clemens Mödlin says:

3rd Mar 2016 at 8:04 pm

Please don't kill me – I have an issue on Pi3 / today downloaded Raspbian operating system (totally updated). After installing arduino my Pi isn't booting. I see the lines of comments when it is booting, but when the device should change to graphical desktop I

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For some research on Internet without results.).

Thanks, Clemens



Liz Upton says:

3rd Mar 2016 at 8:21 pm

Goto the forums – there's a troubleshooting section there.



Sotirios says:

3rd Mar 2016 at 8:43 pm

Congratulations!!

Just one question. I assume that the CPAN library Device::BCM2835 will not work for Pi3? If this is right do you know when the corresponding library for Pi3 will be available? I would like to transfer my existing project to Pi3 but I am using perl to drive the GPIOs.

Thanks,
Sotirios



Travis Siegel says:

3rd Mar 2016 at 8:54 pm

Would be nice to have better audio, but it works. Mike Ray has built some speech drivers using the gpu for espeak to use for output, and now speakup works on raspbian just fine, but orca (for X windows) doesn't work without an external sound card. I was hoping the next version of the pi would address these issues, but I'm going to purchase one anyhow (If I can find someone that has them in stock, everyone in the U.S. is out, and rsonline.com (apparently) won't ship to us anymore, though that's where I got my pi 2B.

In any case, I have been using the pi 2 as my main computer since June 2015, and it's working just fine. After adding Mike Ray's code, the screen reader works just fine, so this blind guy uses a pi every day, and loves it.

And, for those who want a 64-bit os, honestly, it's not difficult to compile your own. Takes a *lot* of time, but it's not difficult.



Jeff says:

3rd Mar 2016 at 11:22 pm

A better audio driver is being worked on (see the "Advanced Users" section in the forums if you're interested in details/testing.)



Vinz says:

3rd Mar 2016 at 9:20 pm

If I understand correctly, still no GIC ? What's the reason for this, gic is so much nice...



Liz Upton says:

3rd Mar 2016 at 9:37 pm

We don't want to introduce incompatibility with previous Pis by changing the way we do interrupt control.



Vinz says:

4th Mar 2016 at 6:45 am

Thank you for the answer. It's still sad if you ask me: linux supports gic very well for quite some time, and from my personal experience with both, gic is easier to use, and more documented. Anyway, keep the good work !



David XXX says:

3rd Mar 2016 at 11:08 pm

Rs-online it's ko..... Element14 it's out of stock :(
How i can obtain a mail when it's disponible for ITALY ??

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Anyone else having reboot issues after getting the latest firmware update via sudo rpi-update?

Richard



JimiDivi says:

4th Mar 2016 at 8:10 am

people are saying the audio is still bad, does just a generic usb sound card thingy fix it? i want to use the Pi 3 as a MIDI PC to amuse me, or i need that little silly usb adapter to make it sound right still?



Jeff says:

4th Mar 2016 at 10:09 am

An improved audio driver is in the works (see the "Advanced users" section in the forums); not sure about the output volume though.



Richard Sierakowski says:

4th Mar 2016 at 9:21 am

Have tried latest version of firmware with a clean install on 2 Pi3s and both are failing to reboot after the update appearing to indicate SD card removed.

Richard



Jeff says:

4th Mar 2016 at 10:03 am

Another audio question: Is the Pi's analog volume that low solely due to hardware constraints? Or could it be boosted on the firmware side after the new audio driver has been introduced (due to less noise being present)?

If it's a hardware constraint: could you please consider improving this in the next iteration? It doesn't need a headphone amplifier of course, but it would be really great if one didn't have to turn up the volume that much relative to other sources on the stereo for example.

Thank you :)



James says:

4th Mar 2016 at 12:09 pm

y!

I'm currently working on a personal project and it may just require the Raspberry PI. But there is one question that I need to know first.

Is it possible to hook up the Raspberry PI to a projector for the projector to project onto a solid surface (lets say a wall) what we would see when Raspberry PI is hooked up to a computer?

Thank you!



Ben Nuttall says:

4th Mar 2016 at 12:13 pm

Yes, you can connect the Raspberry Pi to a projector the same way you can connect a computer to a projector.

> what we would see when Raspberry Pi is hooked up to a computer?

This bit doesn't make sense. You don't connect the Raspberry Pi *to* a computer. It *is* the computer.



Hardwire says:

4th Mar 2016 at 9:32 pm

To further chime in, if the projector is a little bit older and only has VGA inputs, then you

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And as pointed out, the Pi is actually a standalone computer, albeit teeny, that when used as a desktop runs a Linux based operating system and GUI so you are confined to Linux software (versus Windows or Mac applications), though you will find a plethora of alternative office, browser and multimedia apps to display whatever content you may need directly out to the projector.

Therefore depending on your exact project and if you are good to work within those hardware and software conditions, then the Pi will do the job nicely. Hope that is helpful and good luck!



Louis Parkerson says:

4th Mar 2016 at 1:24 pm

The new Raspberry Pi 3 sounds amazing! Built in Wifi and Bluetooth is a game changer for me as I currently have to always use Bluetooth and Wifi dongles so it will free up the USB ports. However, the Raspberry Pi 3 doesn't really need four USB ports, it just needs two, as this will free up space for other more advanced features. If you are a staff at Raspberry Pi headquarters please consider this for future versions.



mobluse says:

5th Mar 2016 at 6:00 pm

No, I think there should be at least four USB-ports. I use four now: keyboard, mouse, HDD, microSD-card-writer. This is what you minimally need to write new images to microSD-cards (unless you have a very big microSD-card in the Pi). If you have only two you need a USB-hub, but then there are two hubs in series. A better solution than two USB-ports would be to have only one microUSB-port with OTG as on the Pi Zero, because then the user could add his/her own USB-hub, without there being several levels of hubs.



Lee says:

4th Mar 2016 at 6:41 pm

Hi! I want to purchase the raspberry pi 3 but I don't see where I can make the purchase on his site. Can someone please help?



Karl says:

4th Mar 2016 at 10:34 pm

GGawesome release, My dad is getting me a couple for my birthday! gonna try to make a "Pi-Rate" radio station, and maybe use it with an arduino to make a life-size BB-8!!!!



anon says:

4th Mar 2016 at 11:02 pm

Will there be a new B+ or a zero with wifi and bluetooth



Liz Upton says:

4th Mar 2016 at 11:20 pm

This *is* the new B+ with WiFi and Bluetooth. Same form factor, same functionality: just faster, and with extra connectivity.



crumble says:

4th Mar 2016 at 11:06 pm

There are now two Pi models which have NEON. Are there any plans for an optional epiphany browser compiled against libjpeg-turbo?

It seems that I am too stupid for this ;-)



Adrius42 says:

5th Mar 2016 at 12:34 pm

Well my two RPi 3s arrived. And both start up with first a big rainbow square then a little Rainbow square top right. I am using the NooB SD cards I purchased with the 3s. Both cards worked in both my older generation RPi's? Have tried two different HDMI interfaces and cables, multiple power supply's no change?

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crumble says:

6th Mar 2016 at 12:18 pm

Write your problem into the forum.

It will be simply a problem with the power supply. You need a good power supply with good cables. It is not easy to find a good combination.

The big rainbow square is the normal booting screen. The small one tells you, that your Pi needs more power.

Beside bad cables many non branded power supplies are garbage. Even if they sell them as proved for Pi usage, they can barley feed your Pi when it has no load.

You can try to use a power bank unless you find a good power supply. The battery inside them can handle the peaks much better than cheap switching power supplies. I am using now a USB 3 hub which was not compatible with my PC but works great with my Pis



student says:

5th Mar 2016 at 12:35 pm

Why polish resellers (like Botland) has price about 14\$ higher? I thing it is not okey.



mahjongg says:

7th Mar 2016 at 1:42 pm

only element 14 (farnell, Newark) and RS components sell it directly, all others buy from them, and re-sell with a markup.

They sell it with a markup because they have to make a profit.

\$35 is the price without taxes, and without transfer costs, it has always been that way.

Newark (element 14) sells it in the US for exactly \$35,-, but adds shipping costs, and takes (i presume) afterwards.

<http://www.newark.com/raspberry-pi/raspberrypi-modb-1gb/silicon-manufacturer-broadcom/dp/77Y6520?ost=77Y6520&selectedCategoryId=>



eric says:

6th Mar 2016 at 2:22 am

Well pleased with Pi 3. (Was about to buy another v2, and there was a new one!) Wasted a little time working out that the old sd card needed fiddling with to migrate Berryboot. Copying over a previously working cmdline.txt to a fresh sd card install seems to get the basics done, but think there's a few more things going on wrt to kernels and wifi. (Haven't built a kernel since Slak 0.xx, but expect someone will sort it out before I do).

It'll be great! Robots everywhere.

Thanks guys.



Brian says:

6th Mar 2016 at 7:08 am

FreeBSD Aarch64 on Raspberry Pi 3 ?

No retailer seems to be selling the Pi 3 for \$35. Amazon has it through resellers at



Ray says:

6th Mar 2016 at 8:12 am

\$49.99 and \$54.99. Somebody needs to address this issue.



Roberto says:

6th Mar 2016 at 6:55 pm

quick & fast search: 45-49€ around Europe :(



mahjongg says:

7th Mar 2016 at 1:36 pm

Newark sells it in the US for exactly \$35,-

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Only Element 14 (Farnell, Newark) and RS components sell it directly, all others buy from them, and re-sell with a markup.



Igor says:

6th Mar 2016 at 11:13 am

How can I buy RPi 3 outside of UK?
All listed sites are shipping to UK only.



mahjongg says:

7th Mar 2016 at 1:43 pm

Nonsense, farnell and RS are shipping worldwide.



Kax says:

6th Mar 2016 at 1:51 pm

I would love to buy a Raspberry Pi. However, the biggest stumbling block is that it doesn't come inside a Pi approved protective casing.

Surely all those microwaves buzzing away and being emitted by the Pi are not healthy for the human body.

Why doesn't Pi now come within casing as standard? Does that mean a fan would be necessary?

I know there are cases made by other companies, but I would like one from Pi, with the official seal of approval from Pi conforming to international health and safety standards. I don't trust third parties.

For me, only the complete unit inside a case from Pi will do. I hope to see one in the near future.



mahjongg says:

7th Mar 2016 at 10:20 am

You can buy cases separately.
A PI does not "emit microwaves", any more than your phone or tablet does, even with WiFi turned on.
Extensive FCC testing guarantees this.



Xaspi says:

6th Mar 2016 at 9:26 pm

I have been reading that always have problems with 45\$ here, in Spain I only find 50€ x shipping normally. I found the cheapest Pi3 46€ + shipping (5€)



Klinston says:

7th Mar 2016 at 1:22 am

Weare so interested with this technology. Today's world, every people will have computer and know it. Proud for Raspberry innovation.



Neil says:

7th Mar 2016 at 6:02 am

I have just received the "recommended" power supply from Element14, and I note that its rated output voltage is 5.1 volts. How very strange. Is the Raspberry Pi 3 not a 5V device? Is Element14 using super-thin wire between the supply and the USB connector, and allowing for excessive voltage drop? What will happen if I use a genuine 5V power supply? What's the guaranteed power supply voltage range of the Pi 3?



Richard Sierakowski says:

7th Mar 2016 at 8:54 am

Some users are reluctant to spend enough money to buy cables with a heavier gage of wire and use cheap quality cables that are adequate for data level current capacity but

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A fractional increase in output voltage will help to deal with the voltage drop issue. I his well within the capacity of the Pi.

Most commercial power supplies generally deliver voltages that are in the range of + or - 10% of their rating. If + or - 1% or 2% accuracy is required then that in in the remit of laboratory grade equipment costing vastly more money.

It is worthwhile spending extra money to get cables with a higher current carrying capacity. Data grade cables are not up to the job of delivering power especially if they are more than 500mm long.

Richard



Jan Sarenik says:

7th Mar 2016 at 12:44 pm

Wish: Add dates to product pages (like <https://www.raspberrypi.org/products/raspberry-pi-3-model-b/>)



Confused says:

7th Mar 2016 at 2:28 pm

Great to hear that the price point is still \$35. I just wish someone would tell the major suppliers as I have had to pay (increasingly) more each time. Ho Hum.



mahjongg says:

7th Mar 2016 at 3:27 pm

Its \$35 excluding taxes and shipping, best example comes from a place where they use US\$ and add taxes and shipping afterwards. like here

<http://www.newark.com/raspberry-pi/raspberrypi-modb-1gb/silicon-manufacturer-broadcom/dp/77Y6520?ost=77Y6520&selectedCategoryId=>

Places that ask more buy from Element 14 (aka farnell or newark) or RS, and add their own markup.



Confused says:

7th Mar 2016 at 4:34 pm

Must be something wrong with my calculator as it gives me: £24.73(aka \$35) plus 20%VAT plus free shipping = £29.68.

Reminder to self: but new battery for calculator. Ho Hum.

PS. I should have been buying when the exchange rates were much more favourable; as prices must have been really low then.



Edwinj85 says:

7th Mar 2016 at 6:08 pm

Sounds like a floating point rounding issue! <http://floating-point-gui.de/errors/rounding/>



Fai says:

8th Mar 2016 at 9:20 am

Is networking still based on USB ?



Sanor says:

9th Mar 2016 at 6:42 am

For the wired 10/100 ethernet: YES

For the new WiFi/bluetooth: NO, they are on a seperate SDIO bus



Fai says:

10th Mar 2016 at 7:33 am

Thanks, this will be my fifth pi



Sam says:

8th Mar 2016 at 1:47 pm

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...on how much storage space does it have. If there is an answer to this, let me know!



Syrous_PL says:

8th Mar 2016 at 6:17 pm

From FAQ:

2. WHAT SIZE SD CARD CAN IT SUPPORT?

We have tried cards up to 32GB, and most cards seem to work OK. You can also attach a USB stick or USB hard drive to provide extra storage. -SD Cards and Storage



Tom O'Brien says:

8th Mar 2016 at 9:47 pm

The enclosure Quick Start Guide that is packed with my Rpi3 directs me to <http://www.raspberrypi.org/qsg>. That file does not exist...



James Allison says:

8th Mar 2016 at 11:15 pm

Gratz on the new release, but we need more RAM not bells and whistles. We can add WLAN and Bluetooth ourselves it doesn't need to be integral, we cannot add RAM however and 1GB isn't enough. Add more RAM or include an option to add more with a DDR3 stick or something. Please.



JPW says:

9th Mar 2016 at 9:11 am

MMmh with Bluetooth LE built-in; I was thinking it would be good to look for some cheap Bluetooth buttons to play with: but actually maybe the 'micro:bit' (when it get released to the general public) now becomes a decent Pi 'add-on': since it has Bluetooth LE built-in also - and has two buttons, an accelerometer and a magnetometer..... (as well as USB, so it'll work with <pi3s as well I guess : although a non-physical connection would work better for the accelerometer I suppose).

https://en.wikipedia.org/wiki/Micro_Bit



JimiDivi says:

9th Mar 2016 at 4:42 pm

<https://www.facebook.com/groups/818886934923633/>

the facebook Pi3 page where anything goes :)



Karthik says:

9th Mar 2016 at 5:59 pm

I am looking for the Raspbian package for the 1.2GHz Pi3, including the drivers for the Wifi and Bluetooth modules.

I downloaded Noobs 1.8.0 dated 29 FEB 2016. However, I don't see the 1.2GHz frequency difference in the 'cat /proc/cpuinfo' output.

Wifi driver is also not loaded. I do see a bluetooth driver loaded in 'lsmod' but I have not tested the same.

Can you please point me to any documentation links available to get Pi3 working at 1.2G with the Wifi + Bluetooth drivers?



phoenix6142 says:

9th Mar 2016 at 10:25 pm

I can work Kodi with my TV remote! Who would've thought... Amazing! Raspberry Pi is t3h pWn4g3!



teddy z says:

10th Mar 2016 at 7:18 pm

i really want to get a pi 3 but i just got the pi 2 xD

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Joining the chorus.

The original Pi Zero is a very sweet package for the price, and I have one project for which it will be perfect. But I agree that there is a lot of value in an alternative \$7 version with wireless connectivity (just ask CHIP that garnered a lot of interest for \$9 plus costly shipping), especially due to the small footprint of the Zero. With the possibility of using wireless peripherals the connectivity handicap of the Pi Zero is somewhat closed, making it more functional out of the box than even the original Pi model B for some users.

A version with this and the Pi 3 SoC would also be great for less price sensitive users (I would personally also like filtered analog audio exposed as the RCA out is, but that is probably asking too much). It would make a nice progression of price doubling, from \$5 for the original zero, \$10 (?) for this hypothetical one, \$20 for an A and \$35 for the B. On the other hand, there is already a lot of Raspberry pi models, it is not good for the foundation spread itself too thin, so it is up to you guys.

Finally, IMHO, the high end uses of raspberry pi are being increasingly limited by the current SoC platform, so a completely new SoC is needed anyway. A Pi 4 two or three years from now makes most sense if backwards incompatible with the original one, featuring for example USB3, more memory, analog input, 4k video, 28nm lithography, etc. And then keep perfecting the old platform with Pi 3.1, Pi 3.14, Pi 3.141, etc. ;)

That is my wishlist/vision. I hope I didn't sound like a spoiled kid, but it is your fault for delivering those awesome boards that challenge our expectations on what we can get. :D



jose says:

12th Mar 2016 at 7:03 am

why high end user would need a 4K res?



Manabu says:

12th Mar 2016 at 11:59 pm

Sorry, I was trying to reply to James Hughes reply to Trevor Harris. I myself have no use for 4k, but Trevor asked for it, and I've heard it elsewhere, so I added in the possible features.

It is for the HTPC crowd probably. Or if you want to display a huge number of statistics/read-outs in a large screen, I guess...



Ivan says:

11th Mar 2016 at 11:37 pm

Would it be financially plausible for the foundation to use a dual core processor with stronger cores rather than the quad core A53 processor? Because I often find myself seeing just one core loaded 100% and other 3 are idling, for example this is how samba works at the moment.

I understand this is a software problem, but we had multi core processors for years and a lot of programs hasn't caught up yet. Looks like we stuck with whatever we can squeeze out of a single core.

You can see examples of how other processor manufactures are doing it. Qualcomm went from 8 cores to 4 cores in the latest mobile flagship processor. And Apple is doing just dual cores in their mobile processors.



JAACK MCMAHON says:

23rd Mar 2016 at 7:05 am

IVAN;

From what I understand on the some OSes(Windows 7 and up & many Linux distos) CPU affinity can be scheduler specified for certain programs, Samba?. see <http://linux.die.net/man/1/taskset>. This way it can be forced onto a core that probably is not as overtaxed for compute cycles. This could be your answer without hardware changes. Many, many times core overload is unnoticed because the OS tries to load balance itself and does a pretty good job itself. Good luck.



jose says:

12th Mar 2016 at 6:58 am

well this board finally came with a hardware antenna!

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Hector campus says:

12th Mar 2016 at 11:13 pm

"35\$"...in my country(euro zone) that means 60-70\$ from official raspberry dealers.The difference it is unfair and i cant buy directly.

The dealers abuse too much,there is much difference.



Man says:

14th Mar 2016 at 1:07 pm

Really excited to see that the Raspberry Pi 3 is finally out!
Keep up the great work!



LucidEye says:

14th Mar 2016 at 7:45 pm

Are there solder pads for attaching an external antenna? R-Pi really should have included a surface mount "AMC" or "U.FL" type connector for attaching an external antenna... at the very least I hope there are solder pads where we could easily attach coax for running a better antenna. Many embedded projects put the Pi itself inside an enclosure that could severely block WiFi and Bluetooth signal.



Richard Sierakowski says:

15th Mar 2016 at 4:54 pm

Good info on how to install Raspberry Pi 3 External Antenna here:

<https://hackaday.io/project/10091-raspberry-pi-3-external-antenna>

This is a very useful connection.

Richard



lorenzo says:

15th Mar 2016 at 7:52 pm

thank you so much I use the raspberry pi 2 a lot and I bought the raspberry pi 3 and it is so awesome for my robot the bb8 that i made



Doug says:

17th Mar 2016 at 6:17 pm

Hican i use this pi 3 as a Linux PC by chance? love the hype but is this board just for running command line tipe of info. com on guys sell me on this thing.



Richard Sierakowski says:

19th Mar 2016 at 8:54 am

The Raspberry Pi boards are all capable of providing standard desktop computer services, run a variant of Debian Linux and come with a full office package, e-mail and web clients.

They are so cheap that if you don't like it you can give it away and not loose a lot of money.

Read this web site and learn just what can be done with it.

Richard



demo says:

24th Mar 2016 at 11:41 am

Hi,Eben Upton. I'm demo from gearbest. After saw your post, I find you are professional! I work for raspberry pi in our company and I want to know if you are interested in writing an article for our New Product...
We can make a cooperation.Waiting for your reply.
Best wish
demo

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Thanks guys for releasing RPI 3. Just now received the PI from tomorrow I'll make tutorials on it.



Zilvinas V. says:

24th Mar 2016 at 9:37 pm

RPI 3 is great, it finally has built-in WiFi & Bluetooth on board similar to C.H.I.P. from The Next Thing Co.

I'd love to see PI ZERO+ (or however it may be called) to include WiFi & Bluetooth too, even if it costs \$9 instead of \$5 :) I mean I believe that most of PI Zero applications are "headless" – that don't need a monitor, it's either a server, or a robot controller, or home automation controller & etc. using very low power, but most if not all of these applications need connectivity.



email spike .zip says:

25th Mar 2016 at 7:46 am

Onnce again, many organisations say their plan is tested however what happens is that they present that the main IT techniques might be seen to be working on tools at a catastrophe recovery site.



Abhishek Jadav says:

25th Mar 2016 at 8:50 am

That is a great new and we are eager to have one RPI 3, congratulations. As appealing it is to use the Raspbian Jessie 18-03-2016, we would still like to use the 2015-05-05-raspbian-wheezy OS. So my question is can we use the 2015-05-05-raspbian-wheezy on RPI 3, and what are the drawbacks we are looking at from the operating system point when using on RPI 3. I would appreciate a explanatory response.



james says:

26th Mar 2016 at 11:55 pm

I have a question? i am running jesse on my pi 3 but i cannot get built in wifi to work. it sees the wireless around my house an my own lan but both wlano and wlan1 says not associated. i have tried most things i cou,ld fine. i have done update and dist upgrade and upgrade. i have tried usb wifi dongle and it doesn't change anything either. If someone could please help it would be greatly appreciated. Please send code if you have a solution or where i can go to get it. thank you in advance for any help you can provide



Nicolas says:

28th Mar 2016 at 3:21 am

Hi, I am excited hearing about model A+ including wifi and bluetooth. Does anyone knows when it is going to be available at the stores for buyers? Thanks in advance!



David Conklin says:

28th Mar 2016 at 5:19 pm

Two questions:

- 1) Where can we buy it? I didn't see a link and can't find one here.
- 2) I live in an old apartment house that has lots of steel in it--will the WiFi work?



Daniel He says:

30th Mar 2016 at 6:20 am

I have an ultimate starter kit for raspberry Pi 2 from Amazon, and a case with a screen for it also from Amazon. The link to the case is https://www.amazon.ca/Updated-Inches-Display-Monitor-Raspberry/dp/B016GK3JTQ/ref=sr_1_sc_1?ie=UTF8&qid=1459314996&sr=8-1-spell&keywords=Raspberry+phi+2+case+with+screen

The link to the kit is

https://www.amazon.ca/CanaKit-Raspberry-1GB-Ultimate-Starter/dp/B00GWTNYJW/ref=sr_1_1?ie=UTF8&qid=1459315094&sr=8-1-10&keywords=Raspberry+phi+2+case+with+screen

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Liz Upton says:

30th Mar 2016 at 11:13 am

Yes, it will – the only difference physically is that the LEDs are in a different location on your Pi 3, so you won't necessarily be able to see them in the case.



xialiu says:

31st Mar 2016 at 2:07 pm

How do you do not sell the official website Pi Raspberry it?



Pokerus says:

1st Apr 2016 at 12:45 am

Wonderful device. So much cheaper, and still works the same as an ordinary computer, with some advantages and disadvantages. Great job!



slacker says:

3rd Apr 2016 at 9:24 am

Isthe datasheet for the BCM2837 available online? I only found one for BCM2835. Would be good if we could get some documentation on it.



tim says:

4th Apr 2016 at 2:53 am

When can we get the Pi3 in the US for \$35? I don't see prices anywhere near that here.



Liz Upton says:

4th Apr 2016 at 10:37 am

That's the price ex sales tax and shipping; try Microcenter if you live near one so you can pick one up without shipping. Microsoft Stores are selling them as well.



eRohits says:

7th Apr 2016 at 1:52 am

Buy it here

<http://www.newark.com/raspberry-pi/raspberrypi3-modb-1gb/sbc-raspberry-pi-3-mod-b-1gb-ram/dp/77Y6520?ost=77Y6520&selectedCategoryId=&categoryNameResp=All%2BCategories>



WatchMeTech says:

9th Apr 2016 at 6:54 am

Really Raspberry Pi 3 is much more faster than the RPI2. thanks for early release.



Vish says:

9th Apr 2016 at 9:45 am

Can this be used to control an engine in a lab? The actuators in the setup would be a fuel injector, spark plug, EGR, throttle. It can be a simple open loop set point engine controller. But is it possible with the new pi ? I am guessing it is, but would like to know the opinions of other Raspberry pi experts.



velli says:

11th Apr 2016 at 3:21 am

anamazing innovation, I really wanted to have it. where raspberry PI3 can I buy online?



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Could you tell me if the wifi capabilities are 802.11 a/b/g/n or only 802.11b/g/n? In other words: will the wifi card of the Raspbery Pi 3 connect to both 5GHz and 2.4GHz radios or it will associate with wireless networks that function only in 2.4GHz band?

Thank you.

Regards,

Alex



G S says:

22nd Apr 2016 at 5:26 pm

It only works with the 2.4 Ghz band. It is not compatible with the 5 Ghz band. Even if it was, speed of the processor / microSD card / memory bottlenecks the download speeds.



aka says:

1st May 2016 at 1:25 pm

Thank you! It's great new device. And it's compatibility is fine – our project WTware for creating thin clients from Pi 2 started working with Pi 3 even before we received our item of Pi 3, with minimum of efforts. Hoping that it will soon work for Pi 4, Pi 5 etc. I'm renaming my project to WTware 4 Raspberry, without mentioning numbers :)



Nimesh says:

2nd May 2016 at 3:17 pm

Can I run applications on Pi 3 in bare-metal mode (i.e no OS) and how much support is out there for this mode?

Thanks.



Nuño says:

8th May 2016 at 5:35 am

I want it now



Ivijan-Stefan Stipić says:

9th May 2016 at 6:38 pm

I use this like stand alone server for my work, build complete server station in less \$150. This is most amazing thing what I can have. Thanks a lot!



Jose Rijo says:

29th May 2016 at 3:47 pm

I would love to see a Raspberry Pi Zero with the Integrated 802.11n wireless LAN and Bluetooth 4.1 of the Raspberry Pi 3. Something like a Raspberry Pi Zero + or Raspberry Pi Model B+ but with the BCM43438 WiFi chip Integrated.



Prasad says:

3rd Jun 2016 at 6:48 am

Why all the Raspberry pi products are 30% costlier in India ?



Liz Upton says:

3rd Jun 2016 at 11:57 am

Import duties and other taxes, I'm afraid.



Mike says:

5th Jun 2016 at 5:47 am

"We have a lot of industrial customers who will want to stick with Raspberry Pi 1 or 2 for the time being."

I think you meant to say commercial customers. None of your products except the CM is rated for industrial temp range.

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Did you get success with HTML5 video? I failed before to build TV informative system on raspberry PI 1 because it didn't support HTML5 video, the second version also was not too better.

I now talking about HTML5 website where you are free to build HTML5 elements and they will work fine without hacks/additional application which opens HTML5 video by some other program. I want to use all HTML5 video features.



All Tech Hope says:

15th Jun 2016 at 3:17 pm

Thanks guys for releasing RPI 3. Just now received the PI from tomorrow I'll make tutorials on it.

Heads up man !!!



gtechn says:

16th Jun 2016 at 10:17 pm

Well, there were exactly 799 comments above me, so this is the 800th comment. Not that it matters.

Anyway, I can't wait for Pi 4! That will be a big release (as always)...



Eslam says:

23rd Jun 2016 at 10:42 pm

Can I Increase Performance Of RASPBERRY PI 3 or Not ???



Ramesh Babu says:

28th Jun 2016 at 10:38 am

I want to generate electricity using wind or solar ..interfacing Raspberry pi ...can anyone guide me?



Tony Puopolo says:

30th Jun 2016 at 8:04 pm

Weve have a date for R-Pi 3 compute module? I would like to develop a high volume product with it. Feel free to contact me directly for details...



juan quispe says:

1st Jul 2016 at 9:22 pm

i want be reseler



Martin Blonde says:

14th Jul 2016 at 10:26 am

We're developing a high volume product based on the Pi 3 Compute Module. Can you please indicate the release date and provide us with a prototype?

Rasp PI3 has issue on the ceramic antenna which is very low on signal strength, is there



Muni Sakya says:

30th Jul 2016 at 2:52 am

any thing happening on this issue otherwise PI 3 is an excellent microcontroller in the world.



Liz Upton says:

30th Jul 2016 at 2:39 pm

That's odd – that's not a problem other people are noticing. What's your setup? I'd suggest you go to the Troubleshooting forum (link to the forums at the top of the page) and see if there are any changes you can make.



Ivan Costa says:

4th Aug 2016 at 7:02 pm

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I am an enthusiast of coding and free software but there's a limitation, I live in Cuba. I have a question for Rasp. Pi team: Do you send products to my country? I don't have anyone who can buy one for me outside and send it and I want to know if I can send you the money and make some kind of deal to send me one because of the embargo most companies don't do it. but only if you can.

Sorry for the long post and best regards to Pi Team. I love your products.



Tackk.com says:

6th Aug 2016 at 5:39 pm

Real time market analysis: As on-site sales are made, information is gathered and sales matters will be on-website revised to micro second tendencies and different advertising and marketing intelligence gathered info.



naviforce says:

10th Aug 2016 at 9:52 am

can i be a reseller?
Thanks

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