

# RASPBERRY PI MODEL A+ ON SALE NOW AT \$20



Posted by **Eben Upton**  
Raspberry Pi Founder  
Founder  
10th Nov 2014 at 9:00 am

216 Comments

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RASPBERRY PI MODEL A+ ON SALE NOW AT \$20

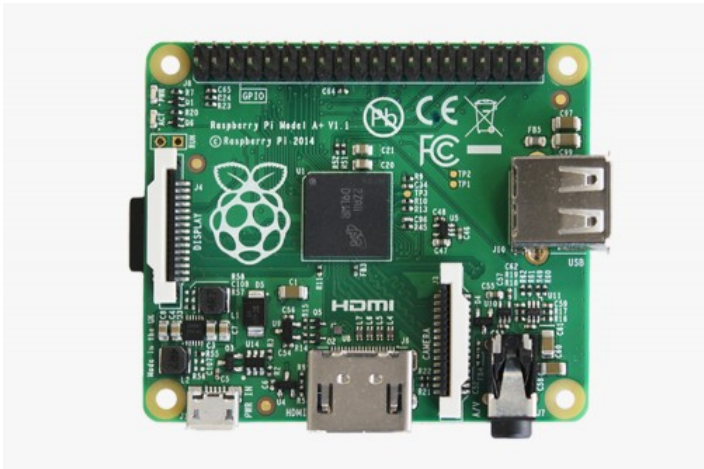
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When we [announced](#) the Model B+ back in July, we said that we'd also be producing a lower-cost variant, analogous to the original Model A. Since then, James has been beavering away, and today we're pleased to announce the release of the Raspberry Pi Model A+ at **a new low price of \$20**.



Smaller, more energy-efficient and crazy-affordable

RASPBERRY PI WEEKLY

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Like the Model A, the Model A+ uses the BCM2835 application processor and has 256MB RAM, but it is significantly **smaller** (65mm in length, versus 86mm for the Model A), consumes **less power**, and inherits the many improvements that we made to the Model B+, including:

- **More GPIO.** The GPIO header has grown to 40 pins. The Model A+ is compatible with the [HAT standard](#) for add-on boards.
- **Micro SD.** The old friction-fit SD card socket has been replaced with a much nicer push-push micro SD version.
- **Better audio.** The audio circuit incorporates a dedicated low-noise power supply.



knock another \$5 off the cost while continuing to build it here in the UK, at the same [Sony](#) factory in South Wales we use to manufacture the Model B+. You can buy the Model A+ today from [Farnell](#) or [RS Components](#) in the UK, and from [MCM](#) or [Allied Electronics](#) in the US – element14 (part of the same company) has [more info here](#).

We handed out a very few preview units to some people we know with video cameras and microphones. Here's what they had to say:

The NEW Raspberry Pi A+

Raspberry Pi Model A+ Launch

Russell Barnes over at [Raspi Today also has a review](#) – check it out!

model a   made in the uk   \$20

216 COMMENTS

- Michael Horne says:

10th Nov 2014 at 9:09 am

Congratulations on launching the new board! Looks cute and cuddly and that price point is *\*very\** attractive. :-)

I feel a Gameboy hacking session coming on...
- Alexander Parsan says:

2nd Jan 2015 at 12:04 am

You read my mind.
- Crenn says:

10th Nov 2014 at 9:10 am

Awesome! I'll have to pick up one of those and a B+ as well. the A+ for my robot and the B+ for another little project.

BLOG

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 S.

10th Nov 2014 at 9:29 pm

Yup the A+ just became the perfect robotification device.

Perfect for use with a Polulo Zumo.

And thank you, THANK YOU Foundation, for including all 40 GPIO pins on the A+ (robots like pins).



Simon Walters says:

10th Nov 2014 at 9:17 am

Anyone got a direct link to where it can be bought from?



Quentin Freimanis says:

21st Dec 2014 at 9:37 pm

<http://www.adafruit.com/products/2266>



Alex Eames (RasPi.TV) says:

10th Nov 2014 at 9:19 am

Simon I hope this link will work.

<http://uk.farnell.com/jsp/search/productdetail.jsp?id=2447906&Ntt=raspberrypi+A%2B>



Simon Walters says:

10th Nov 2014 at 9:41 am

Ta – I found it on the CPC site and managed to order one but now the link/part number doesn't work – I hope there's one there when I pop along at lunch time!



vasi says:

10th Nov 2014 at 10:26 am

Will they send outside the UK, but still in the EU?

The Romanian farnell website does not feature the A+ yet.



mahjongg says:

10th Nov 2014 at 11:28 am

Look for Farnell order code 2447906 maybe you can find it then.



vasi says:

10th Nov 2014 at 3:15 pm

Thank you! 0 Product results found for "2447906"  
I'll wait some more.



vasi says:

11th Nov 2014 at 1:32 pm

Update: it is available right now, I've just ordered it!



Razvan Dragomirescu says:

11th Nov 2014 at 4:43 pm

It now shows up on the Romanian Farnell site but it's still \$25 instead of \$20 (VAT and shipping excluded).



Stefan H. says:

10th Nov 2014 at 9:19 am

Looks great for my robot projects. But it looks like the Micro SD is once again not fully covered by the board – great risk for breaking it.

You do realise that all Micro SD cards protrude slightly, right? They're designed to do that  
\*or else you can't remove them from the device\*.



Andrew says:

10th Nov 2014 at 9:39 am

That's not quite true. On tablets and phones you often have to reach in and poke them with a finger nail or paper clip to eject.



Liz Upton says:

10th Nov 2014 at 9:41 am

That's correct: that's usually the standard on devices where there's no expectation the user will need to remove the card. Pi users, however, do tend to swap theirs around quite a lot!



Stefan H. says:

10th Nov 2014 at 9:56 am

Since I lost my preordered Pi because of a broke SD Card reader I am sensitive to such stuff. From the micro SD Card slots I know it would be perfectly possible to mount a push-pull card slot on the back so one could remove the micro SD by pushing it with the finger nail on the back. But anyway – the design is finished and the community has to live with it.



Richard says:

10th Nov 2014 at 11:15 am

So "all Micro SD cards protrude slightly", except for all those devices in which they don't. ;)

In all seriousness though, you might be surprised if you polled your Model A buyers as to whether they'd prefer the card protruding or flush. The only project so far where I've had need to use an "A" was where size was everything! I spent nearly as much on a micro SD adaptor that would sit flush into the board than the cost of the Pi. I still had to take a Dremel to areas of the board to get it to fit the enclosure (along with removing the composite connector and bending the needed IO pins to an angle).

So well done on the smaller board for that reason, but don't assume the inconvenience of having to perhaps use a thumbnail to remove the card would have outweighed those couple of extra mm!

BTW where can I buy it now for \$20 plus shipping and taxes? RS have it for £20 + £4.95 delivery + VAT. Last I checked there were about 1.6 US\$ to the pound.



andycrofts says:

12th Nov 2014 at 11:31 am

@Stefan H.

Yeah, my first Pi had a broken socket – but these guys have METAL sockets!

Oh, well done, Raspberry Pi Foundation! This is brilliant, gonna make my (delayed) Remote-squirrel-monitoring-in-the-Finnish-forest project SOOOO much easier. As I'm temporarily working for the company that donated three solar panels and a battery for it, I've no qualms about buying a couple.

As my boss here asked me about the new data logger I'm designing (not Pi-based, I'm afraid – average power budget of 20mW prevents it)- "Our current unit costs us well over €100 – how much will yours cost?"

to which I replied "Oh, a couple of beers and a kebab each" – which is about what the new model A+ is!



Clive Beale says:

10th Nov 2014 at 10:07 am

The design allows for the thickness of a case – any further back and it would be inaccessible once you put the Pi in a case.



Andrew says:

10th Nov 2014 at 10:18 am



Clive Beale says:

10th Nov 2014 at 10:42 am

Though I am now wondering how much plastic (if any) I can shave off the end with a Dremmel :)



Tim Crumpton says:

19th Nov 2014 at 10:42 am

Noroom to shave a micro SD card.  
[http://bunniestudios.com/blog/images/microsd\\_lineup.jpg](http://bunniestudios.com/blog/images/microsd_lineup.jpg) Look at 'decapsulated' cards in this image (not my blog- I Googled 'inside micro sd card')



Leo White says:

10th Nov 2014 at 9:24 am

Just put in an order for one!

There's been several projects where I've wished the Raspberry Pi was just that little bit smaller, and now it is!



typ.o says:

10th Nov 2014 at 9:25 am

Again a good step avoiding the potholes! Goot that You don't fork the hardware base in dozens of types fragmenting the support of the user base. Brilliant move!  
 Thank you for your work!



Eben Upton says:

10th Nov 2014 at 9:36 am

Thanks: we do our best :)



ColinD says:

10th Nov 2014 at 5:27 pm

And your best is awesome :)



Kevin Partner says:

10th Nov 2014 at 9:36 am

Congratulations to the Foundation – I'm more excited by this than even the B+ (and I was very excited about that!). This is going to be exactly right for replacing the existing Model A in my mobile robot – I expect to get even more time out of my battery pack.



mahjongg says:

10th Nov 2014 at 9:44 am

what does it weigh? The Farnell site has it at 54 grammes but as the B+ weighs 45 grammes that can't be right!

I suppose for some people weight might be important.



Liz Upton says:

10th Nov 2014 at 9:50 am

Hang on and I'll stick one on the post scales!



Liz Upton says:

10th Nov 2014 at 9:52 am

23g. :)



mahjongg says:

10th Nov 2014 at 9:53 am



Chris Evans says:

10th Nov 2014 at 10:31 am

Has yours got more data on it's microSD card than Liz's?  
;-)



mahjongg says:

10th Nov 2014 at 11:34 am

NoI was in a hurry and made a mistake, its indeed 23 Grams, its in the second video, at 2:19.



John says:

10th Nov 2014 at 9:48 am

Isthere going to be a A+ and camera bundle available?



agumonkey says:

10th Nov 2014 at 10:03 am

Isthe SoC built on the same process ? can we expect better tolerances to overclocking ?  
just asking, you know, in case.

Great job, the A+ looks really cute.



Liz Upton says:

10th Nov 2014 at 10:06 am

It's exactly the same SoC.



Stewart Watkiss says:

10th Nov 2014 at 10:04 am

I've been waiting for the A+ since the B+ was first announced. I was expecting an improvement, but this has exceeded my expectations – smaller and cheaper!

I've placed an order for two already.



aremvee says:

10th Nov 2014 at 10:21 am

and..  
now they can say it fits in an Altoids tin



matthew dickinson says:

10th Nov 2014 at 10:05 am

christmas !!!

it looks awesome guys. i think i might need to let my girlfriend know about this. :P



Mike says:

10th Nov 2014 at 10:10 am

You are the best. That's all.



Wiz says:

10th Nov 2014 at 10:13 am

Erm, when will it be available outside of UK and US ? :-o

An excited French potential user. :-)



Dirk says:

10th Nov 2014 at 11:30 am

Yep, for instance at Farnell: <http://fr.farnell.com/raspberry-pi/raspbrry-moda-256m/sbc-raspberry-pi-model-a-256mb/dp/2447906>



Wiz says:

10th Nov 2014 at 11:49 am

Oh, didn't see that, thanks a lot !!



Chris Evans says:

10th Nov 2014 at 10:14 am

Sorry if I'm being blind but I can't see the other two dimensions!

(65mm x ? x ?)

I suspect the PCB will be depth as a B+ and height shorter than a standard Model A Pi?



jdb says:

10th Nov 2014 at 10:32 am

The height is approximately 12mm – the highest component is the GPIO header which protrudes through both sides of the board.

The PCB dimensions are 65 x 56mm. The USB connector protrudes ~2mm from the edge of the board, as do the audio and HDMI jacks.



Saulius says:

10th Nov 2014 at 10:21 am

Nice from factory size! BTW is there a need for industrial enclosure for this board?

Enclosure for RPI B+ can be found here: [Mod removed spam link]



hackerboy says:

10th Nov 2014 at 10:40 am

Yay. Finally cheap enough for HTPC use. My 60" plasma and tannoy defenitions will love this.



Chris Evans says:

10th Nov 2014 at 10:45 am

I see Farnell are listing it as:

Features: 700MHz Dual Core VideoCore IV Multimedia Co-processor, 256MB RAM, 1 x HDMI & 1 x USB Port.

I know you have the CPU and the VideoCore but it could mislead some people saying 'Dual Core'.



Eben Upton says:

10th Nov 2014 at 7:23 pm

The VideoCore itself is a dual-core processor. I can see how the description is confusing though: it should read 700MHz ARM1176 with 250MHz dual-core VideoCore multimedia processor.



Michael says:

10th Nov 2014 at 10:51 am

I had wondered if the opportunity would be taken to bump the RAM up to 512 the same as the B+. Was this considered and rejected? Would it have affected the price?



Gordon Hollingworth says:

10th Nov 2014 at 11:26 am

Unfortunately they don't give away the SDRAM for free, so yes it'd have effected the price

Gordon

It's still perfectly good for even HTPC use. See OpenElec. It can run systemd, wifi, bluetooth, samba multimedia shares for PC, sshd, ntp, pulseaudio, airplay, web server and play 1080p video on rpi. Pretty awesome.



Tim says:

10th Nov 2014 at 11:02 am

Been stuttering for ages and not bought one of these little things yet – time to get on with it.

Me and my son will be Pi programming over Christmas this year I think...



exartemarte says:

10th Nov 2014 at 11:06 am

Brilliant – I think you have excelled yourselves! This is just the job for us robotics dabblers. I was expecting all the B+ similarities, but the smaller form factor is a real bonus. And of course it's compatible with my other Pi's. I have ordered my first two (saves hassle on the Farnell website with its £20 minimum).

In my opinion, a well thought-out product that deserves to succeed.



killor says:

10th Nov 2014 at 11:11 am

Good start !!

But let's be honest:

The actual price is greater than \$20...

RS .....£20.00 VAT £4.00 Grand total £24.00

Element 14 £15.51 S/H:£3.95 VAT: £3.89 Total:£23.35

Good of luck



Chris Evans says:

10th Nov 2014 at 11:23 am

The Foundations pricing has always been excluding taxes and postage. CPC has a trade counter so you can buy it with no postage!



Simon Walters says:

10th Nov 2014 at 11:29 am

CPC Trade counter price is £14.03 which is \$22

Farnell is selling at £15.51 which is \$24

I imagine Liz is locking and loading as we speak :)



Raspberry Paul says:

10th Nov 2014 at 11:37 am

Been trying to find it on CPC's website but can't find it. Any links?



Simon Walters says:

10th Nov 2014 at 1:56 pm

Its on main page now

<http://cpc.farnell.com/raspberrypi>



Richard says:

10th Nov 2014 at 4:35 pm

CPC offer free delivery\* on online orders anyway (minimum order value £5 now for card processing – in April I ordered a screwdriver at £1.97 and they delivered it free), so double win. [\*I'll swallow the £1.59 above the actual exchange rate of £12.44 if it includes delivery!]



We're speaking to RS – that price is incorrect, so I'd advise you to shop around for now. \$20 is always ex VAT and shipping, as our headline prices always are (if you're a school, you're exempt from VAT).



David Hunt says:

12th Nov 2014 at 11:36 am

Z,  
ie.farnell.com lists the ex-vat price in euro at €24.01, which is equivalent to 4c shy of \$30. That's the ex-vat, ex-shipping price. Would you think that this is a mistake? I bought a couple yesterday at this price, but was feeling rather unhappy about it, especially since I'm also paying vat on top of that.  
By the way, I'm delighted with it, great form factor, well done!  
Dave.



Liz Upton says:

12th Nov 2014 at 1:17 pm

Thanks for letting us know; if anyone else spots prices which are off like this, please make a note of it here or email me, and I'll pass it on to Farnell/RS.



Grant says:

10th Jan 2015 at 6:35 am

HiLiz,  
  
In South Africa I just paid R320.85 (Ex Vat and shipment from the RS South African warehouse) equivalent to \$27.47, (using a typical R11.68:\$1 exchange rate).  
  
Please see if you can reduce the South African price, that may result in a nice sales boost.  
  
Regards  
  
Grant



exartemarte says:

10th Nov 2014 at 11:27 am

Infairness to the Raspberry Pi team, the additional costs of tax and shipping will vary from place to place so to quote the basic price is the only fair means of comparison. I would guess that most people understand that.  
  
I think you are in error on the Element 14 price – I have ordered two and was charged £37.22. There is no separate handling charge.



Matt says:

14th Nov 2014 at 4:08 pm

Mine cost £16.84 including delivery from CPC. That's close enough to \$20 for my liking especially as that also includes 20% VAT.



AndrewS says:

10th Nov 2014 at 11:38 am

IsEmma hugging herself again? "LOOK AT THE LOVELY BABY PI!" ;-)

Would be great if we can have an A+ version of  
<http://www.raspberrypi.org/documentation/hardware/raspberrypi/mechanical/README.md>

And I see <http://www.raspberrypi.org/> has had a makeover too.



Ben Nuttall says:

10th Nov 2014 at 11:45 am

Yup :)

Oooh, and all the saladhouse animations have been updated to feature the Model B+ too – lovely :-)



Liz Upton says:

10th Nov 2014 at 11:46 am

Mechanical docs will be there soon!



Alex says:

10th Nov 2014 at 11:38 am

For a product designed, developed and manufactured in the UK, I don't understand why the headline price is listed in dollars.

I know you're proud of manufacturing them in the Sony factory in South Wales, so you should be proud enough to price it in our currency too!



Liz Upton says:

10th Nov 2014 at 11:45 am

Not a matter of pride, but a matter of business. We source all our components in dollars, so we price it globally, for everybody, in dollars. It means that you're not subject to currency fluctuations. (If we priced it in pounds, we'd have to change the price on you every time we bought in a new batch of components to reflect the pound's current place against the dollar.)



Ben Nuttall says:

10th Nov 2014 at 1:36 pm

It's been in our FAQs since the early days:

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



Jon Colt says:

11th Nov 2014 at 12:48 am

Mysuspicion? The RPi is priced in US\$ rather than GB£ for the benefit of us dumb Colonials who can't spell properly ("defense"; "color"; ad inf.); and who likely would interpret the cost as the weight, and therefore refuse to buy because of the implied cost of shipping.



Archie says:

10th Nov 2014 at 12:22 pm

I will buy A+. i cant believe you build a very cheap and smaller pi and has more GPIO. i have already one pi the Rev B. but i want more GPIO pins.



ctoro99 says:

10th Nov 2014 at 12:57 pm

Hi, new to the Pi world so excuse my ignorance....for the A+ there is no feasible way for a network connection other than USB – correct?



Greg says:

10th Nov 2014 at 1:40 pm

you're correct – B+ has ethernet & 4 nics A+ just a single usb. Although you could add a usb hub & run whatever off that – but it defeats the purpose of the tiny board !  
For a newbie – go B+!



jdb says:

10th Nov 2014 at 1:51 pm

Actually you can run PPP over UART –

<http://www.raspberrypi.org/forums/viewtopic.php?f=44&t=51633>



mahjongg says:

10th Nov 2014 at 7:44 pm

No! There are many other solutions, for example Microchip makes a range of SPI to Ethernet chips, and there are also SPI to bluetooth chips, so a HAT board can offer both ethernet and bluetooth interfaces.



mahjongg says:

10th Nov 2014 at 7:45 pm

Obviously the performance will be limited to the throughput of the SPI interface!



Ken MacIver says:

10th Nov 2014 at 1:08 pm

Congratulations Foundationers on your new Baby.  
Awesomely sensible engineering choices and backwards compatibility to dream for..  
B+ in you Dev environemnt  
A+ and HAT in your test\pilot product  
Compute module when you want to take over the world..



David Hunt says:

10th Nov 2014 at 1:11 pm

I was looking at doing the slim-down hack by de-soldering the ports on a B+, but now there's no need, the A+ is perfect for those types of project. Well done to the foundation!



Richard UK says:

10th Nov 2014 at 1:48 pm

The form factor is great, really makes the A+ usable for stuff the B+ is too big for. Ideal for robotics.

:)



Drentsoft says:

10th Nov 2014 at 2:15 pm

I want one!



Dave Rensberger says:

10th Nov 2014 at 2:18 pm

Awesome!! I'm so glad you guys aren't caving to the people who are saying "We need a slightly more expensive more powerful version". For the IoT hardware projects, it's all about low cost and power consumption, and the A+ looks like a step forward as far as that goes.

Has anyone tried running it with Linux in tickless mode or with a tickless OS to see just how low the power draw can actually be?



jdb says:

10th Nov 2014 at 2:25 pm

Our default shipped kernel uses CONFIG\_NO\_HZ\_IDLE=y. This turns off timer interrupts when the ARM CPU is idle.

The CPU (and in fact the entire architecture) are configured for low-power hardware states when idle.

I would expect that with the new lower power consumption of the A+ (20-25% less than the A) it will be even more attractive for battery-powered projects.

Now you need to package a DSI LCD, the camera, a small LiPo battery pack, and a case, and you have a GoProClone kit!



grey says:

10th Nov 2014 at 3:25 pm

could this handle XBMC? :)



Liz Upton says:

10th Nov 2014 at 3:31 pm

Depends which XBMC you're using – some (not all) of the XBMCs people have designed for the Pi are quite (well, \*relatively\*) memory-hungry, so you may find yourself buffering. To be on absolutely solid ground, we'd recommend you use a B+.



dom says:

10th Nov 2014 at 5:33 pm

xbmc is possible with caveats about memory size and a single USB port. See: <http://forum.osmc.tv/showthread.php?tid=16102&pid=111992#pid111992>



Tzarlz says:

10th Nov 2014 at 5:53 pm

FWIW, I've been running XBMC (Openelec) on a B (not B+) with 256MB RAM overclocked at 800MHz and using a USB wireless adapter (no mouse or keyboard – I use Yatse on my phone) and I've had no problems at all (apart from a one time freeze which might be related to something else I was doing). I use it to watch youtube videos, Netflix (via PlayOn) and some stuff sent from my Android phone. Since the A+ has the same processor and RAM it should work.



Liz Upton says:

10th Nov 2014 at 6:04 pm

Cool – thanks for that, it's a useful data point. (I found RaspBMC a bit stuttery on an A+, but I wasn't overclocking.)



ColinD says:

11th Nov 2014 at 7:50 am

My first-gen Model B with 256MB RAM worked fine with an early version of Raspbmc with one exception, that pausing a video and playing again would cause artefacts for a few seconds. But, Raspbmc has moved on enormously since then so it'd definitely be worth trying again.



Andrew Oakley says:

11th Nov 2014 at 2:11 pm

To add another data point, I'm also running XBMC OpenElec on an original day-one purchased Model B rev 1 (black audio connector) with 256MB RAM (although with wired ethernet not wireless) and it is also entirely flawless. It streams from a Netgear NAS over homeplugs.

I did used to run RaspBMC on the same device and found it a teeny bit more sluggish than OpenElec, notably on UI selections & transitions, but certainly more than usable and the actual video streaming was fine.

(Ah, that heady morning of pounding F5 on my browser, with multiple windows open on multiple distributors... happy memories... :))



Dave Rensberger says:

11th Nov 2014 at 3:13 pm

I've been using openelec on a 256M model B (one from the 2nd batch that was made in China). I use it mostly to play back movies from a SMB server and an NFS server.... it works OK, but it does freeze a lot, requiring a hard reboot, and it seems to corrupt its SD card pretty frequently (I've gotten in the habit of pulling it out and running fsck on it

So your results may vary. Frankly, I'd spend the extra \$15 if for no other reason than to get the extra memory (even if it doesn't matter much now, I'm sure it's only a year or two before XBMC simply won't "fit" in 256M).

I think where the A+ will really shine is truly small "embedded" type applications! The fact that it can act as a "wifi to GPIO gateway" to monitor and control other pieces of hardware for less than \$30 (usb-wifi modules that work with rPi are now <\$10) is really incredible!



**hackerboy** says:

10th Nov 2014 at 9:40 pm

RPi is an excellent HTPC platform. See these commercial XBMC/HTPC projects based on Pi:

<https://www.techencave.com/community/threads/first-commercial-httpc-slice-based-on-xbmc-raspberry-pi-is-launched.168305/>

<https://www.indiegogo.com/projects/plusberry-pi-media-box-running-on-raspberry-pi#home>

RPi system can simultaneously run systemd, wpa2 wifi, bluetooth, samba multimedia shares for PC, sshd, ntp, pulseaudio, airplay, web server and play 1080p video with 7.1 sounds and bluray psg subtitles.



**paddyg** says:

10th Nov 2014 at 3:32 pm

Absolutely brilliant.

That price reduction has just bought you yet more front page space and TV minutes in which to influence 'decision makers' and change the world!

I don't know how much chips cost in London now but £12.58 for a proper computer is mind boggling.

And it looks to be significantly better than the A



**Tom West** says:

10th Nov 2014 at 3:44 pm

Is the GPIO pinout the same as the B+?



**Liz Upton** says:

10th Nov 2014 at 4:04 pm

Exactly the same, yes.



**Eric Olson** says:

10th Nov 2014 at 4:14 pm

As noted the 256mb memory



**Eric Olson** says:

10th Nov 2014 at 4:26 pm

The small size/power consumption definitely look attractive. The small memory is not so attractive. As pointed out, versions of XBMC for example, which have been tuned to the 512mb Raspberry Pi are likely not to work well on this one. Image processing may also require additional memory in autonomous robotic applications. While increasing RAM to 512 might increase the price, if it would not noticeably increase power consumption, this would be much preferred for software compatibility with other Pi models. Still, I can see many uses for this little computer.



**mahjongg** says:

10th Nov 2014 at 7:52 pm

for a media player the B+ is a better choice anyway, because of the ethernet interface!

The A+ is much more for embedded controllers and such things, that need very low current consumption, and don't need memory for the GPU, or an extensive GUI. I expect 256GB will be more than enough for 99% of user cases.

 vasi says:

11th Nov 2014 at 12:25 pm

I agree, 256GB rules!



hackerboy says:

10th Nov 2014 at 9:52 pm

Well no, Wifi can also be fast. 802.11n is 300-600 Mbps. Our TV broadcasts are < 5 Mbps. DVD bitrate is 9,8 Mbps. Should be sufficient for all video RPi can play (that is less than h.265 4k).



JBeale says:

10th Nov 2014 at 10:24 pm

>"Wifi can also be fast. 802.11n is 300-600 Mbps." I think you will find in real life that any flavor of wifi on the R-Pi (any model A,B,A+,B+) is always slower than wired ethernet, and it does not remotely approach the numbers you quoted.



hackerboy says:

11th Nov 2014 at 3:36 pm

Sure, in reality the 300 Mbps wifi might be 30-50 Mbps. It's still fast enough for video.



Matt Davenport says:

10th Nov 2014 at 4:38 pm

Isthere anywhere that I can see a list of Pi projects that translate well to the A+? I'm assuming that the only problem would be the smaller RAM, otherwise, most would translate well.

I've done tons of projects on the B, but never played around with the smaller versions.



RichardUK says:

10th Nov 2014 at 6:30 pm

I think you would be better listing the ones that don't as I expect there would be very few. I've been running two old B's with 256 and two with 512. Not noticed any difference. My Two 256 B's run Octoprint for my printers with cameras recording the prints. Zero issues! :)



Drentsoft says:

10th Nov 2014 at 4:59 pm

Just bought one so I can free up my B+ for more fun things. Think the A+ will be more suitable in its place :)



Pygar says:

10th Nov 2014 at 5:18 pm

But has the Altoids Barrier been broken?



Liz Upton says:

10th Nov 2014 at 5:47 pm

It has! Our good friend Matt Richardson demonstrates over at Make:

<http://makezine.com/2014/11/10/raspberry-pi-model-a-revealed-smaller-and-just-20>



Pygar says:

11th Nov 2014 at 1:19 am

It looks as though it will fit nicely once the necessary holes are made. I wish the pdf had included side views and I knew how to print full sized- I'd use it as a cutting guide, not forgetting the thickness of foamie craft sheet to be used to insulate and cradle it... I may end up trying to use it as a HTPC. The XBMCs I looked at on YouTube were all well larded with animations, posters, background images... but if I keep looking I'll find one that is slimmed down to the bone... Maybe \*one\* background image, like the RCA



David Hunt says:

12th Nov 2014 at 10:00 pm

How about a cute Model A+ case? :)

<http://www.davidhunt.ie/3d-printed-raspberry-pi-model-a-case/>

Regards,  
Dave.



Lob0426 says:

10th Nov 2014 at 5:40 pm

Very nice new board! Smaller, cheaper and more power efficient.

Great job



Average Man says:

10th Nov 2014 at 6:00 pm

I love the new size, I can see a great mini radio project coming on. Price is brilliant too.  
Bravo.



RichardUK says:

10th Nov 2014 at 6:34 pm

Just ordered one, £22 inc postage. Over at The Pi Hut. :)  
So that's 5 RPi's I have now. It's an addiction. :-D



Andrew says:

10th Nov 2014 at 7:09 pm

Smaller, more power efficient, and cheaper. OK fine only one USB port, but the power savings have to happen somehow, and plenty of applications where the USB/ethernet cluster of the b+ is simply too bulky. I have projects in mind and now even less excuse.



Education says:

10th Nov 2014 at 7:30 pm

The best just got better! :)



NeoStormer says:

10th Nov 2014 at 8:01 pm

Can it be Backpowered?



dom says:

10th Nov 2014 at 8:42 pm

s.

<http://www.raspberrypi.org/forums/viewtopic.php?f=63&t=91267#p638428>



NeoStormer says:

10th Nov 2014 at 8:47 pm

Fantastic! Thank You!



JBeale says:

10th Nov 2014 at 8:24 pm

I think you made the right design decisions- small, cheap, and compatible. The price is amazing, didn't expect that. Nice work!



Jongoleur says:

10th Nov 2014 at 8:24 pm

Just ordered one from CPC – its £16.84 inc VAT and UK postage.



wally says:

10th Nov 2014 at 9:27 pm

Is it safe to assume that the mounting hole locations relative to the 40 pin header are identical to the B+?



Liz Upton says:

10th Nov 2014 at 9:28 pm

Exactly the same, yes.



wally says:

10th Nov 2014 at 9:28 pm

Shouldn't it be the "A-?"



mahjongg says:

10th Nov 2014 at 9:35 pm

No, the A+ relates to the B+ as the A related to B, also the A+ is a step up from the A.



Dave Rensberger says:

11th Nov 2014 at 3:15 pm

It's a step "up" in everything except price, size, and power consumption. Why would you want to give it a lower grade for being cheaper, smaller, and more environmentally friendly!?



Liz Upton says:

11th Nov 2014 at 4:28 pm

I think he was kidding!



Dave Rensberger says:

11th Nov 2014 at 4:45 pm

I sort of was too... bad jokes all around, I guess!



Liz Upton says:

11th Nov 2014 at 4:50 pm

I would pay money for a good "this is sarcasm" font.



AndrewS says:

12th Nov 2014 at 10:23 am

MSComic Sans? ;)



Tom says:

10th Nov 2014 at 10:17 pm

Awesome News, looking forward to get one :)



Stefan M. says:

10th Nov 2014 at 11:49 pm

HiRaspberry Pi-Team,

being very close to finishing my project (which has been designed for/around the model A), I wonder if you will still continue to offer the classic model A? I would frankly not be too happy to see the model A becoming EOL (or soon). So how are your future plans regards the model A for the next 1-3 years?

Oh, secondly, will you be in munich by any chance at the Electronica tradeshow? Would be a pleasure to have a chance to meet /talk to some of you guys personally.

Regards,





wally says:

11th Nov 2014 at 12:48 am

Mylame attempt at a joke...



Shannon Spurling says:

11th Nov 2014 at 1:46 am

\$10 shipping from Element14? You have got to be joking. I could send these usps all day for \$5 bucks as a lowly residential shipper, 2 day flat rate. Someone please speak to these guys. I might as well buy model B+'s from RS.



W. H. Heydt says:

11th Nov 2014 at 3:10 am

Some of that will be handling charges. Somebody has to manage to get the Pi A+ into the shipping folder/box/whathaveyou without dropping and losing it.

(That's my one caveat about microSD...too darned easy to lose. I suspect that's going to be an issue with schools...)



Shannon Spurling says:

11th Nov 2014 at 4:53 am

I can understand some handling fee, but this is a bit excessive. If they ship a non-contract rate, which is silly for a company of any size, they are still doubling the price for handling. Usps priority runs \$15 for 2 day on a package no bigger than an altoids tin. I want two of these so bad for a project, but the shipping makes them cost almost as much as buying 2 B+'s off ebay.



Bob Fagioli says:

11th Nov 2014 at 2:03 pm

I totally agree. A \$10 shipping and handling fee is unreasonable for such a small product. Last year I bought a model B from them and S&H was \$5.50 which is fine. In July of this year the model B+ from then had a S&H of \$9.10 and now the A+ S&H is \$10. Unreasonable! I will wait for other retailers to offer it. I will not spend \$10 for S&H. They crossed the line.



wailian says:

11th Nov 2014 at 2:19 am

Correct me if I'm wrong.

Will Gert's VGA adapter 666 for Raspberry-Pi B+ work with the Model A+? Since Model A+ is compatible with the HAT standard via 40 pins GPIO header (Same as Model B+).

<http://www.raspberrypi.org/gert-vga-adapter/>



mahjongg says:

11th Nov 2014 at 8:16 am

yes it will.



joseph says:

11th Nov 2014 at 5:55 am

Congratulations!



Thomas says:

11th Nov 2014 at 11:02 am

What's the point of having a computer without a network port? If I want an ARM processor with many I/O pins, I can get an Arduino Due for cheaper.



Gert says:

11th Nov 2014 at 11:43 am



mahjongg says:

11th Nov 2014 at 12:46 pm

Plus the Arduino DUE doesn't have an ARM processor, and doesn't even support USB, or any kind of video output. On the A+ you can easily add an USB WiFi stick. The Arduino is simply a cheap micro-controller, of the kind you will find controlling a micro-wave oven, stuck on a small PCB, with a serial interface. The PI Uses a complete computing System on a Chip (SoC), and now the A+ is **cheaper than an official Arduino board!**



mahjongg says:

11th Nov 2014 at 12:59 pm

Correction, the DUE is the first "Arduino" that uses an ARM, instead of the proprietary CPU of normal (real) Arduino's.



Andrew Oakley says:

11th Nov 2014 at 2:22 pm

>What's the point of having a computer without a network port?

Having trailing wires on your portable device such as a turtle, robot, quadcopter, glider etc. is considered undesirable (and in the case of the quadcopter, hilariously dangerous).

It has one USB port, which is where you put your nano WiFi adaptor. You then configure/debug the WiFi using UART serial console and wicd-curses (been there done that!).

> If I want an ARM processor with many I/O pins,

> I can get an Arduino Due for cheaper.

Yes, but the implementation of Linux that you can run on the Arduino is \*massively\* less capable. And programming the Arduino with anything other than sketch byte code – Python, for example – is monumentally hard work.

The Arduino is brilliant, if what you want is a really good microcontroller. The RPi A+ is about having a fully-fledged Linux machine in portable form.

(Just to be clear: the Arduino is \*brilliant\*; it just happens to have a different focus from what the RPi A+ is aiming for)



Andrew Oakley says:

11th Nov 2014 at 2:37 pm

Also:

>What's the point of having a computer without a network port?

You are making me feel really, really old.

Here goes a "it was all big-endian fields round here when I was a lad" moment. The first computer I ever used was the Harwell Dekatron, although it was 1973, I was 2, and my dad let me push only one button (it printed out Snoopy in what today you'd call ASCII art, although I don't think the Harwell actually used ASCII).

For the next 15 years, I was a computer geek who hardly ever felt the need to connect my computer to another computer. It just didn't occur to me. I wrote my own programs, I programmed my own friend. I played adventure games that engaged me in conversation. I occasionally got paid by magazines for short programs I'd written; and those magazines were how I communicated with other users.

I find the question "What's the point of having a computer without a network port?" a bit of a generation gap. On the one hand, it's a bit sad that you think of a computer as merely a tool to communicate with, rather than an engaging device in its own right. On the other hand, I suppose it's nice that tech has reached the point where unlimited communications seems normal.

Hey ho, time to teach the next generation. Join me at the Cotswold Raspberry Jam in Cheltenham on Sat 22 Nov (only 5 tickets left, and it looks like the children will outnumber the adults – one poor parent seems to be bringing 3 kids; as a dad of 3 myself, best of luck to her!). If you hear a scream, don't worry, it's only the jelly babies.



Jorge says:

11th Nov 2014 at 12:15 pm



mahjongg says:

11th Nov 2014 at 1:02 pm

From Farnell portugal. <http://pt.farnell.com/raspberry-pi/raspbrry-moda-256m/sbc-raspberry-pi-model-a-256mb/dp/2447906>



Thomas Lauer says:

11th Nov 2014 at 2:37 pm

I'm just glad that the hdmi and power are finally on the same side of the board!



Ben Nuttall says:

11th Nov 2014 at 2:45 pm

They have been since B+ in July.



Andrew Oakley says:

11th Nov 2014 at 3:58 pm

But guess how many Pi robotics hobbyists are now measuring the width between their caterpillar tracks, to see if they can fit the Micro USB power lead sideways, or rotate the A+ and have the USB WiFi adaptor sideways, or buy a right-angle Micro USB power lead... ;-)



W. H. Heydt says:

11th Nov 2014 at 6:29 pm

Ummm....mount the board vertically in a plane parallel to the tracks? (Didn't you learn \*anything\* from "The Wrath of Khan"?)



Liz Upton says:

11th Nov 2014 at 11:26 pm

I just watched The Undiscovered Country for the first time in about 15 years. Horrified to find that it left me cold; I remember LOVING that movie.



Jon Colt says:

11th Nov 2014 at 6:23 pm

Ben--(i'd like an expert's opinion!)

Try as I might, I do *not* get the impression (and I've read most of the "official" books, as well as Broadcom's technical offerings) that the  $\pi$ 's processor can output data in parallel; either one byte at a time, one nibble at a time, or one word at a time.

If this is indeed true, then the  $\pi$ 's Broadcom chip runs counter to the design of most microprocessors, which use only one or two instructions for data I/O, depending upon whether or not the processor's data I/O is rsgister-based, or memory-mapped.

To make it easy for you: Is the R $\pi$ 's Broadcom chip designed for easy *PARALLEL* I/O or not? A simple 'yes' or 'no' will be more than sufficient; justifications not required.

And: many thanks from me and all 'traditional microprocessor' users everywhere.

Hats (no pun intended. On second thought...) off to you and all the R $\pi$  crew for your outstanding, informative work.



mahjongg says:

11th Nov 2014 at 7:05 pm

Yes, although I don't think it matters one iota.



Liz Upton says:

11th Nov 2014 at 11:26 pm

I am sitting next to one of the chip designers.

To make it easy for you: Is the R $\pi$ 's Broadcom chip designed for easy *PARALLEL* I/O or not? A simple 'yes' or 'no' will be more than sufficient;



AndrewS says:

12th Nov 2014 at 10:47 am

I know you didn't ask for justification, but see e.g.

[http://elinux.org/RPi\\_Low-level\\_peripherals#C](http://elinux.org/RPi_Low-level_peripherals#C)

<http://wiringpi.com/reference/raspberry-pi-specifics/>

And there's probably extra support (?) for parallel I/O in the BCM2835 hardware peripherals which are still undocumented, but used e.g. by

<http://www.raspberrypi.org/gert-vga-adapter/>

In <http://www.raspberrypi.org/raspberry-pi-guy-interviews-clive-gordon/> Gordon talks about this extra documentation being worked on.



Peter Green says:

28th Nov 2014 at 2:33 am

The actual IO is done through IO registers which work with a group of pins. However there are a couple of things that make life tricky.

Firstly the GPIO pins on the Pi A and B were selected for what special functions they offered, not for corresponding to a consecutive block of GPIO pins that could be easily used in parallel.

The A+ and B+ are much better in this regard, you have access to GPIO 2 through 27 on the GPIO header, I think you can also get 0 and 1 from the camera connector if you are prepared to deal with flat flex cable and are not using the camera.

The compute module is better still giving you access to ALL the GPIO pins.

The other weird thing about the chip on the Pi is it has separate "set" and "clear" registers, this avoids the need for read-modify-write code but means you have to perform two separate operations (and hence will inevitably have more timing skew) to set a group of pins to a new state.



erich says:

11th Nov 2014 at 7:39 pm

Just a query,

Model A+ is \$20 = €16 but Farnell are selling at €24 (ex Delivery & VAT)

Model B+ is \$35 = €28 but Farnell are selling at €35 (ex Delivery & VAT)

This is crazy, why have people been accepting this robbery for so long? I just want to pay the advertised price (give or take reasonable conversion rate). I have bought 2 Model B's and one B+ and these inflated rates.....



fanoush says:

11th Nov 2014 at 9:13 pm

Farnell CZ does not sell it for \$20, it is actually slightly more expensive than old model A

Model A 523CZK before VAT or shipping <http://cz.farnell.com/raspberry-pi/raspberry-moda-256m/sbc-raspberry-pi-model-a-256mb/dp/2254699>

Model A+ 533CZ before VAT or shipping

<http://cz.farnell.com/raspberry-pi/raspbrry-moda-256m/sbc-raspberry-pi-model-a-256mb/dp/2447906>

This is approx. \$25 or 15.15GBP before VAT so no A+ discount here :-{



exartemarte says:

12th Nov 2014 at 12:03 am

The Farnell price, in the UK at least, includes shipping – there is no separate handling or shipping charge. The Farnell UK price is GBP15.51 before VAT.



fanoush says:

12th Nov 2014 at 11:28 am

For CZ item price does not include shipping, cheapest farnell shipping is additional 130CZK on top of this and then VAT is applied to both so the total is 803CZK ~=



erich says:

12th Nov 2014 at 12:24 pm

A+GBP15.51 = \$24.54, that's almost 25% more expensive than the RPI advertised cost (and for the UK shipping is only free if you spend more than £20). I'm buy from Farnell Ireland (at €24 mentioned above) but its shipped from Farnell UK Warehouse as far as I'm aware but this cost is 50% more than the RPI advertised cost, it would be great to see something done about this by the RPI Foundation.



Scott Seighman says:

12th Nov 2014 at 3:16 pm

Agree with Erich, here are the listed A+ prices from US distributors:

Adafruit = \$24.95 + \$9.47 shipping

Allied Components (RS Components-US) = \$30.00 + \$6.18 shipping

Element14 lists the A+ for \$20.00 but unable to calculate shipping for some reason.



exartemarte says:

12th Nov 2014 at 5:01 pm

USD20.00 equates to about GBP12.65, so at GBP15.51 Farnell (UK) is adding less than GBP3.00 for shipping and handling. That's fairly normal – some component retailers charge a bit less, some a bit more. You can't really expect Farnell to stock it, pack it and ship it to you for nothing.



erich says:

12th Nov 2014 at 6:11 pm

@exartemarte I think you missed that all our prices (well mine anyway) are excluding shipping & VAT, shipping is £3.95 extra.



exartemarte says:

13th Nov 2014 at 10:50 am

No, I didn't miss that – I was just commenting on the situation in the UK, which is the only one I know about. I got my two for £15.51 each plus 20% VAT. I appreciate that not everyone is as fortunate as we are.



paul gydos says:

12th Nov 2014 at 6:06 am

I can't tell if the mcmelectronics.com version of the A+ comes with a US 120V power supply or non at all. Their e14 website says "Micro USB power source" but its not clear if it is only describing the connector or if its saying that it comes with a power supply. Does anyone know?



Steve says:

12th Nov 2014 at 7:02 pm

Paul – this part is just the board – MCM Part #: 83-16459 | Raspberry Pi Part #: RASPBERRY-MODA+256M. You can tell because of the price – \$20 – they don't give away extras.

I'm going to wait until they offer a shipping deal before I get one. (Like others here, I don't like to pay \$10 shipping on a \$20 item.)



W. H. Heydt says:

16th Nov 2014 at 7:11 am

Get 10 of them at once and get free shipping. :-)

Can I just point out how weird we all sound when praising the smaller size: "We had this ridiculously small computer and it got even smaller!". The original size was an impressive feat of engineering so it does seem weird when the comments make the B+ sound like Asimov's multivac (in size).  
That being said, anyone know the cheapest supplier to Finland, I want six?



lazakostic says:

12th Nov 2014 at 10:30 am

I want to buy one, but I don't have any previous models so I can't use another prepared SD card to run Raspbian or Raspbmc, because they require an Ethernet connection to install and the A+ doesn't have one. Is there anyway to get full Raspbian on my SD card and run it on the A+ without Ethernet, then setup WiFi, then format the card and install Raspbmc and install it over WiFi?  
Thanks!



mahjongg says:

12th Nov 2014 at 11:44 am

The standard NOOBS includes Raspbian, and doesn't need a network connection to install Raspbian.

Also, you can always install any OS the classic way using DD, and there also seem to be a way to put an OS on the NOOBS card to install it off-line, I saw a forum discussion about that.



arvindpdmn says:

12th Nov 2014 at 2:53 pm

They say it's low power but I find no metric about the power consumption. Of course, actual power consumption will depend on peripherals and the application but it should be possible to provide the standby current when a minimal system is in sleep mode. When I work on my app, I wish to compare against such benchmarks to know if I am going wrong somewhere. Thanks.



AndrewS says:

13th Nov 2014 at 10:17 am

Alex Eames to the rescue! :-)

<http://raspi.tv/2014/raspberry-pi-a-how-much-power-does-it-need>



Don Scales says:

12th Nov 2014 at 4:15 pm

Question –

Does the Model A+ (and the B+) have a fix for the I2C clock stretching bug that plagues the earlier models?

Regards Don



AndrewS says:

13th Nov 2014 at 10:28 am

I wouldn't have thought so as that's a SoC hardware bug, and AFAIK the ModelA+s are using the identical SoC to all the other Pi models.



CM says:

12th Nov 2014 at 5:16 pm

How about a side-by-side comparison chart of all the RPi models???

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Something like

<http://www.raspberrypi.org/documentation/hardware/raspberrypi/models/specs.md> ?  
;-)

See also:

<http://www.raspberrypi.org/documentation/hardware/raspberrypi/models/README.md>  
<http://www.raspberrypi.org/products/>  
<http://www.element14.com/community/community/raspberry-pi/raspberry-pi-plus>



mahjongg says:

13th Nov 2014 at 12:01 pm

Wikipedia has it.



Jonathan Dadzie says:

12th Nov 2014 at 6:55 pm

How do you connect it to a monitor? And do you people ship the product to Africa (Ghana precisely).



mahjongg says:

13th Nov 2014 at 11:59 am

Through a HDMI connector you can connect it to a HDMI or to a DVI-D monitor, (or to a video converter) through the TRRS 3.5 mm jack you can connect it to a composite monitor/TV. Through a small passive adapter on the GPIO header you can connect it to VGA.

Farnell and RS Components ship worldwide, or resellers that buy from them might.



asdfasf says:

12th Nov 2014 at 9:57 pm

Sorry, but where I can buy this at \$20 USD?



mahjongg says:

13th Nov 2014 at 11:55 am

Somewhere where you don't pay value added taxes, nor pay for handling or shipping. Farnell and RS are the official builders and sellers of the boards.



Silicium says:

13th Nov 2014 at 12:49 am

I don't find the schematics. When do you expect to publish this file like the other models ?



mahjongg says:

13th Nov 2014 at 12:00 pm

Don't know, but in the meantime you can look at the schematics for the B+, and discard the LAN9514 USB HUB/Ethernet adapter chip.



Silicium says:

14th Nov 2014 at 1:22 am

I will be curious to see where is the dedicated low-noise power supply to increase the audio quality.



mahjongg says:

15th Nov 2014 at 6:25 pm

just guessing, but on the B+ its U10, a AP7115-25SEG. With just 5 pins (in a OT-23 or SC70 package) it very tiny, it creates a noise free 2.5V for the PWM buffers. Its easy to overlook as its so tiny.

Yes, I am still alive ... barely! We're about two-thirds of the way through the semester and I can't wait for the full week off we get for Thanksgiving (I will \_definitely\_ be giving thanks ... and stuffing my puss with turkey and all of the trimmings because my annual physical on Monday was 100% All Systems Go for a space launch ... there just isn't any way to get there without putting rubles in Putin's pocket and Homey don' do dat! :D

Anywaaaaay, congratulations to the whole team, including manufacturing, for getting the price down a whopping 20% and the size down a huge amount (regular Altoids tin contents being consumed continuously to prepare room ;) ), and increasing the GPIO pin count to 40 and providing HAT compatibility. Geez, what's next, the Model A++ with a sandwich \_and\_ wheels??? Hmmmm, now \_there's\_ a project no one has done ... yet! :D

As we say in the Navy, Bravo Zulu!



Liz Upton says:

13th Nov 2014 at 10:19 am

LOVELY to hear from you – I was getting really worried at the uncharacteristic silence!



AndrewS says:

13th Nov 2014 at 10:34 am

I unfortunately don't have the equipment to be able to test myself, but has anyone seen if the new A+ still fits nicely in LEGO-built cases?



Lee Wilkin says:

14th Nov 2014 at 12:16 am

Congratulations to the Raspberry Pi team on your brand-new Model A+! :-)

I can honestly say that I haven't been this excited about a new hardware launch since your original Model B went on sale (I've almost had it running continuously since purchase (headerless; ssh; ftpd; apache2; boinccmd participating in theSkyNet POGS – distributed computing Optical Galaxy Survey; python,etc.)

My 512mb Model B is always being used for .h264 video (playback + downloads); python; word-processing with conversion to PDF (uploaded to R-Pi server + dl to tablets).

I'd thought of buying Model A for portable projects but never did anything about it. The power efficiency of R-Pi has always impressed me (along with its size + price) but this new model is simply \*astounding\*! :-O

I just can't get over how small it is; how good it looks; how well it performs ... what an incredible bargain for \$20! :-) (The report card says "A+" :-) )

My A+ arrived today (on my day off; no less) and I've had a blast playing with it! The thought of powering it exclusively through renewable energy is very exciting.... :-) (I'm currently putting it through its paces by seeing how long it can last on a poorly performing solar-powered battery (currently over x2 runtime of previous models.)

I'm very far from being a Maker but even I can see most of them will be thrilled with your A+....

Well done guys and Long live the Evolution!



Liz Upton says:

14th Nov 2014 at 1:24 pm

Thanks Lee!



Rila says:

15th Nov 2014 at 1:57 pm

I can't understand why anyone would buy an A+ when a B+ can be had for \$29 on sale. With only 1 USB port, no network port and half the memory the A+ seems like a worthless piece of junk to me. What am I missing here? The B+ is already cheap, cheap, cheap, so what's the appeal of a stripped down PI for a few \$\$ less?



Clive Beale says:

15th Nov 2014 at 3:10 pm

It's smaller, lighter, uses less power and is cheaper. Apart from that it has no advantages over the B+.



 Steve Drain says:

15th Nov 2014 at 4:40 pm

It has one further 'advantage'. The USB current control circuit is absent, so it can be back-powered. This makes it more suitable for use with a [Lapdock](#). For me it is a splendid development.



Clive Beale says:

15th Nov 2014 at 7:51 pm

Isn't it great?! :)



Denis Bredelet says:

17th Nov 2014 at 10:58 pm

I just received my A+.

Strange that the NOOBS image from this same website reports its version of Raspbian as "not supported", what is up with that?

I look forward to a lot of fun with that little board. I will need to find myself a wired keyboard though ;)



AndrewS says:

18th Nov 2014 at 1:27 pm

That would be because NOOBS and Raspbian were released before the Model A+ was, and so simply see it as an "unknown" Raspberry Pi. Something that I'm sure will be fixed during the next Raspbian release.



tlc says:

19th Nov 2014 at 3:16 pm

I just received and booted my A+

Really great work, thank you very much!

Just one disappointment – which is about enhanced audio.

I have written my experience with B+ audio to the forum: The Raspberry Pi Model B+ Q&A thread on Fri Aug 08, 2014 9:27 am.

But have not receive any reaction from the foundation yet. So I try to repeat it here:

I have tested B+(A+) audio (via analog output) and yes, personally, the reproduction itself sounds a bit more real and rich than it is at B or A models. And default output level is approx 3db louder. Thanks for that enhancement.

But I have found that there is some slight level of noise hearable from my B+(A+) model in case that a "silence" is played.

I have tested it using a couple of headphones only (have no opportunity to test it with profi sound equipment or oscilloscope yet).

Level of this noise is not affected by volume control, and is hearable only when "silence" or very low signals < -20db music (wav/mp3) or < -40db 1kHz signal (wav) is beeing played. When the signal is higher and fades out to silence then after aprox 2 seconds the noise reappears.

Model B and A have no hearable noise – it is clear silence when clear silence (wav/mp3) is beeing played.

I have tested it with "omxplayer -o local" (latest software and firmware (6.Aug) + firmware from 1.Aug – (and additionally on A and B with SW+FW from 18.Jun 2014)). It seems to me that some kind of signal compression or ALC is used somewhere at the sound path.

Does someone other noticed this behaviour? Or does someone know if there is some kind of ALC used at B+(A+) model?

Looking forward to release of the full B+(A+) schematics...

The same results are with today's apt-get update / upgrade / dist-upgrade.

Thanks for your reply,

Tomas



Tim Rowledge says:

20th Nov 2014 at 10:44 pm

We've been working on the sound from Scratch recently after some complaints about the quality suddenly changing for the worse. Part of that was a dumb-thumbs on my part, but after correcting for that there is still the 'silent hiss' issue.

It was suggested that I "try with disable\_audio\_dither=1 in config.txt" and that made a

text of making scratch sound better with the rather modest quality sound samples it uses

c) changing that config on your Pi might cause the collapse of the quantum vacuum energy level.



tlc says:

21st Nov 2014 at 1:07 pm

Thanks for "disable\_audio\_dither=1".

I have done quick test and looks that it works.

Silence is silence and yes, there is a little distortion hearable in signals around -80db.

From aprox -60db it looks/sounds clear. I will do some other tests later, with dither off/on including professional mix and power amplifier, not only headphones.

Tomas



Christian Nobel says:

26th Nov 2014 at 1:01 pm

### What went wrong with pricing?

The new A+ is announced as 5\$ cheaper than the original model A, but the price here in Denmark from RS is exactly the same (actually a few ører more expensive).

And RS's prices excludes VAT and shipping, so it clearly seems like RS are using the A+ to increase their profit margin.

As such it might not be the big deal, but I am a little offended by the release of a product that claims to be 20% cheaper, which by the end of the day turns out not to be cheaper – there are then other reasons for using the A+ instead, but that's another story.



Jure says:

2nd Dec 2014 at 12:25 pm

is there any mechanical drawing of the A+ board? I'd love to see measurements of the board.



Ethan Wolf says:

4th Dec 2014 at 1:33 pm

Nifty little computer! I think I'll test it in a couple of different manners, and if I like the results, guess what'll be the base for my DIY PipBoy 3000 ;)



Tim says:

5th Dec 2014 at 9:18 am

This stuff is addictive. I have only had my first B+ for two weeks and already feel i need an A+...



Kevin Diffily says:

6th Dec 2014 at 8:12 pm

I would love to see an even simpler board for sensors. Remove everything except USB for communication, IO pins, SD, and power input. What would be absolutely perfect is if insertables such as USB were oriented from center out rather than the inverse as they are now.



AndrewS says:

16th Dec 2014 at 1:17 pm

<http://www.raspberrypi.org/products/compute-module/> ?



blah says:

7th Dec 2014 at 8:37 am

Can I use this for a minecraft server? (With extra storage, of course)

Yup, I just thought a B or B+ would be too expensive, or better said, just too good for a Kids-mediaplayer and look here – An A+ Model, low energie, low price, more GPIOs. Absolute fantastic. Just bought one. Thanks and keep up with the RaspPi's



John-Peter Chamberland says:

5th Jan 2015 at 1:37 am

I am building a small 10" tall man doll that will say comments to people and respond to what is answered back. What module is the right one for this purpose? I need to load in to it phrases by a human voice that will answer to keywords spoken from someone nearby. Please advise me. Thank you very much!



James Hughes says:

5th Jan 2015 at 9:41 am

Probably best to ask the question on the forums, more likely to get a decent answer.

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