

Raspberry Pi Model B+ 512MB RAM

PRODUCT ID: 1914

OUT OF STOCK

Please enter your details below and we will send you an email when this item is back in stock. You will only be emailed about this product!

YOUR NAME

YOUR EMAIL

NOTIFY ME

ADD TO WISHLIST

DESCRIPTION

TECHNICAL DETAILS



DESCRIPTION

OMG OMG OMG, did you hear? There's a Raspberry Pi called the Model B+ and check it out...more USB ports, more GPIO, better power supply, four mounting holes, less sticky-out SD

Downloaded from Arrow.com Raspberry Pi HQ have blessed us with a new

design. They've taken all the feedback over the last 3 years and rolled out a nice updated Pi with many fixes and extras...all at the same price! Take a deep breath and buckle up, because Adafruit has this freshness and we're going to break it down for you. [We have a big tutorial that we're keeping updated, with all the nitty-gritty details, so check that out when you have a moment](#)

Here's a brief overview of what's new

- Dual step-down (buck) power supply for 3.3V and 1.8V
- 5V supply has polarity protection, 2A fuse and hot-swap protection (so you can plug/unplug USB without resetting the board)
- New USB/Ethernet controller chip
- 4 USB ports instead of 2 ports
- 40 GPIO pins instead of 26. The top/first 26 pins match the original layout, 9 additional GPIO and 2 EEPROM Pin identification pins
- Composite (NTSC/PAL) video now integrated into 4-pole 3.5mm 'headphone' jack
- MicroSD card socket instead of full size SD
- Four mounting holes in rectangular layout
- Many connectors moved around

What's not new:

- Same basic size, 85mm x 56mm
- Same Processor, Broadcom SoC running at 700MHz (can be overclocked)
- Same RAM, 512MB soldered on top of the Broadcom chip
- Same power connector, microUSB
- Same software - be sure to run the latest Raspbian/Noobs but otherwise the overall Linux software is the same
- First 26-pins of GPIO are the same
- Same HDMI port
- Audio part of the A/V jack is the same
- Same Camera and DSI Display connector

So, basically, it's the same single-board Linux computer you've known and loved but all cleaned up and easier to use. The good news is many of your existing accessories like cables, hubs, keyboards, monitors, etc will work fine. Many Pi Plates (PCBs that plug into GPIO port directly) will also work.

However **26-pin GPIO cables do not fit** this means that you **cannot use classic Cobblers, GPIO-cabled boards like the GertBoard/PermaProtoPi** without a [GPIO downgrading cable](#). **Model B cases will not fit the B+**, the cases must be redesigned for the B+ as so much has moved around! You also need to be running Raspbian or Noobs from after approx June 2014 since earlier ones do not have USB/Ethernet chipset support.

We do carry [40-pin GPIO Cables](#), [Pi Cobblers](#), and [Pi T-Cobblers](#) that are specifically designed for the Raspberry Pi Model B+.

Be sure to check out more of our awesome Raspberry Pi accessories including:

- [Our absolutely perfect Raspberry Pi B+ Case](#) - we really can't think of a better way to protect your Raspberry Pi Model B+. And we've thought a lot about it.
- [Assembled Pi Clobber Plus](#) - The best way to break out your Pi's pins into a breakout board. We also carry the [Assembled T-Clobber Plus](#) that makes your breakout pins a bit easier to read but is less compact.
- [8GB Card with NOOBS 1.39](#) - This is the fastest way to have a variety of operating systems on your pi.
- [Bare 4 GB SD card](#) - you'll need this to load the Raspbian/Debian image and is not included in a Pi computer purchase. Tested and works perfectly! [We also have a wide range of pre-burned SD cards](#)
- [5V @ 2A Switching Power Supply w/ 6' MicroUSB Cable](#) - An all-in-one 5V 2A + MicroUSB cable power adapter that's perfect for powering your pi
- [HDMI cable](#) - required to connect a Pi to a monitor and is not included in a Pi computer purchase. [We also carry the flat version for a more sleek/stylish look.](#)
- [Ethernet cable](#) - required if you want to connect your Pi to the Internet via a router
- [USB WiFi Module](#) - This is our recommended WiFi adapter, works out of the box with Pi with good range and speed
- [Keyboards and Mice](#) - We have a range of wired and wireless options
- [A wide range of accessories](#) and [essentials](#)
- [Various small displays as well as nice Pi-compatible HDMI monitors in a range of sizes, from 2.5" to 10"](#)

Please note: Some boards are made in the UK, some in China. WE DO NOT KNOW IN

TECHNICAL DETAILS

- PCB Dimensions: 56mm x 85mm x 1.4mm / 2.2" x 3.4" x 0.06"
- Height with USBs: 17mm / 0.7"
- Weight: 42g
- [Mechanical Schematic](#)

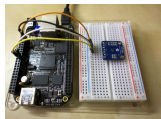
[Connector Schematic](#)

[Mechanical Schematic](#)

[Raspberry Pi Model B+ specs](#)



LEARN



[TMP006 Temperature Sensor Python Library](#)

Use a TMP006 non-contact temperature sensor on a BeagleBone Black or Raspberry Pi!



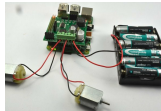
[Using OSC to Communicate with a Raspberry Pi](#)

Use your favorite audio programming environment to send data to your Raspberry Pi!



[Setting up a Raspberry Pi as a WiFi access point](#)

Make the most adorable little WiFi router



[Controlling Motors using the Raspberry Pi and RasPiRobot Board V2](#)

Learn how to use the RRBV2 to control motors.



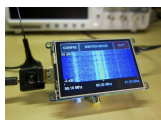
[RasPipe: A Raspberry Pi Pipeline Viewer, Part 2](#)

An exploration of network communication from the shell using Pygame and the PiTFT.



[Onion Pi](#)

Make a Raspberry Pi into a Anonymizing Tor Proxy!



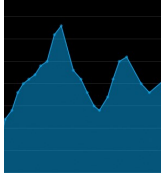
[Freq Show: Raspberry Pi RTL-SDR Scanner](#)

See what's in the radio waves around you using software-defined radio and a Raspberry Pi!



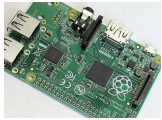
[Raspberry Pi NFC Minecraft Blocks](#)

Make papercraft Minecraft blocks that interact with the world using near-field communication!



[Adafruit IO](#)

The Internet of Things for Everyone



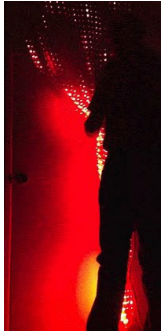
[Diet Raspberry Pi](#)

It's only WAFER thin!



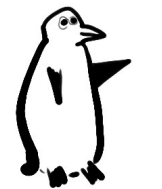
[5" Display Kippah Portable Raspberry Pi](#)

Make a portable Raspberry Pi



[1,500 NeoPixel LED Curtain with Raspberry Pi and Fadecandy](#)

Make Something Beautiful. And Bright. Really Bright.



[What is this "Linux", anyhow?](#)

A gentle introduction to the world's most popular free OS.



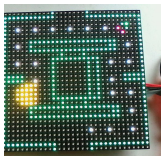
[Press Your Button for Raspberry Pi](#)

Press Your Button is a game of chance for all ages.



[Introducing the Raspberry Pi Model B+](#)

Its the freshest new Raspberry Pi, let's check it out!



[Web Enabled PIXEL on Raspberry Pi](#)

Use a browser to control the PIXEL, with Raspberry Pi.



[Speech Synthesis on the Raspberry Pi](#)

Any text can be output as voice



[Character LCD with Raspberry Pi or BeagleBone Black](#)

Use a 16x2 or 20x4 character LCD with a small Linux board!



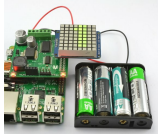
[MPR121 Capacitive Touch Sensor on Raspberry Pi & BeagleBone Black](#)

Easily sense touch from up to 12 inputs using the MPR121!

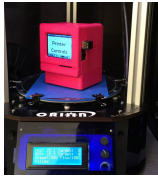


[Raspberry Pi Pipboy 3000](#)

Explore the apocalypse with a trusty Pi



[Battery Powered Raspberry Pi Displays w/RasPiRobot Shield](#)
Power a Raspberry Pi and LED matrix display using a RasPiRobot Board



[AstroPrint 3D Printing](#)
Wireless 3D Printing for Raspberry Pi



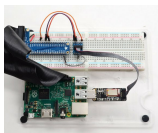
[Install bluez on the Raspberry Pi](#)
How to compile and install bluez, the Linux Bluetooth classic & low energy system, on the Raspberry Pi.



[Adafruit Pi Box Plus](#)
Sturdy case with easy access to the Raspberry Pi Model B+ inside



[RasPi - Animated GIF Picture Frame](#)
How else can you see cats doing the wobble on your desk?



[Programming Microcontrollers using OpenOCD on a Raspberry Pi](#)
Native GPIO bit twiddling your way to success



[User-space SPI TFT Python Library - ILI9341](#)
Use an ILI9341 TFT display with a Raspberry Pi or BeagleBone Black!



[Using a 5V Stepper Motor with the RasPiRobot Board V2](#)
Control a 5V stepper motor with the RasPiRobot Board using Python and the RRB2 library.



[3D Printed Raspberry Pi B+ Enclosure](#)
Make a stylish case for the Raspberry Pi B+ then print it out!



[Raspberry Pi Kernel-o-Matic](#)
Kreate Kustom Kernels Kwickly!



[OctoPrint - Open Source Host Software](#)
Put your printer on the network with open source host software on a Raspberry Pi Model B+



[Monitor Your Home With the Raspberry Pi B+](#)
Remotely access temperature and humidity levels (plus

house!



[PiPhone - A Raspberry Pi based Cellphone](#)

Why have a cellphone that everyone else has, when you can build your own?



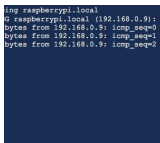
[NeoPixels on Raspberry Pi](#)

How to control NeoPixel LEDs with Python on a Raspberry Pi!



[Raspberry Pi Video Looper](#)

Turn a Raspberry Pi into a dedicated 1080p video playback tool for art installations, digital signs, or just playing cat videos!



[Bonjour \(Zeroconf\) Networking for Windows and Linux](#)

Numeric IP addresses are so '90s!



[NextBus transit clock for Raspberry Pi](#)

Should I stay or should I go now?



[MCP9808 Temperature Sensor Python Library](#)

Use a MCP9808 precision temperature sensor on a BeagleBone Black or Raspberry Pi!



[Reverse Engineering a Bluetooth Low Energy Light Bulb](#)

Control a Bluetooth Low Energy device with your own code!



[MAX31855 Thermocouple Sensor Python Library](#)

Use a MAX31855 thermocouple temperature sensor on a BeagleBone Black or Raspberry Pi!



[Running OpenGL-based Games & Emulators on Adafruit PiTFT Displays](#)

More Games = More Fun!

MAY WE ALSO SUGGEST...



5V 1A (1000mA) USB port



Wireless Keyboard and



SD/MicroSD Memory Card



Miniature WiFi (802.11b/g/n)



16GB Card with NOOBS 2.8



USB cable - USB A to Micro-



Adafruit PiTFT - 320x240



Adafruit Pi Box Plus -



USB to TTL Serial Cable -



Raspberry Pi 1 Model B+



Mini Chiclet Keyboard - USB



Raspberry Pi User Guide by

DISTRIBUTORS [EXPAND TO SEE DISTRIBUTORS](#)

[CONTACT](#)

[SUPPORT](#)

[DISTRIBUTORS](#)

[EDUCATORS](#)

[JOBS](#)

[FAQ](#)

[SHIPPING & RETURNS](#)

[TERMS OF SERVICE](#)

[PRIVACY & LEGAL](#)

[ABOUT US](#)

ENGINEERED IN NYC Adafruit®

*"Meaning can easily be confused
with structure. Structure is a good
approximation, but not the same" -
Claudia Perlich*



4.9 ★★★★★
Google
Customer Reviews