# 1. pi-top Overview

The **pi-top** is a Raspberry Pi laptop you build yourself! It is the perfect product to affordably and interactively learn about software and hardware. **pi-top** is shipped with a revolutionary learning platform to expand your computer science knowledge. Our massive multiplayer online role-playing game takes you through a world of fantasy grounded in computing reality. **pi-top** enables you to:

- Learn how to Code in a gamified environment
- Build circuits
- **Make** hardware (and apply it into our software)
- 3D print your own creations and make cool things!

The **pi-top** is a platform for a whole host of maker projects.

- An all-in-one Raspberry Pi powered laptop with 10+ hours of battery life
- Fun build-it-yourself laptop (comes with easy image-based manual)
- Fully equipped with a keyboard, trackpad, screen, battery, charger and an 8GB SD card preformatted with our unique OS based on Jessie.
- 13.3" inch HD LCD screen and 262K colours (wide range of viewing angles)
- Practical and functional design with easy access to the Raspberry Pi in front via slidable acrylic slice.
- Free educational (MMORP) game included CEED Universe
- Works with most Raspberry Pi models\*
- Designed for ages 8+

#### 1.1 pi-top software Features

#### **CEED Universe**

An enhanced learning platform for teaching computing through an approachable and gamified multilayered learning portal. Learn how to build hardware, circuits, and code.

- teaches users practical computing and hardware skills
- free with all pi-top kits
- shaped around the UK IT curriculum (in over 40+ schools)
- ages 8+

#### pi-top OS

Each **pi-top** comes with an 8GB Class 10 SD card pre-loaded with **pi-top**OS, a customised 'flavour' of Raspbian Jessie (the Raspberry Pi Foundation's official supported operating system). Connects to integrated cloud-based **pi-top** services (Summer 2016) allowing users to connect to their files and settings from any **pi-top** 

Directly interfaces with **pi-top** hardware for tasks such as:

- · Battery life monitoring
- Screen brightness control
- Connecting to the internet in minutes
- Safe shutdown via power button
- Transferable unique user ID for easy data transfer

<sup>\*</sup>compatible with most microcomputers currently on the market

- Automatic cloud back-ups
- 3D Slash software for click 'n' create 3D printing

# 1.2 pi-top: built your own laptop

The Raspberry Pi powered laptop you build yourself! With our easy image-based Instruction manual you can build your own laptop in as little as 30 minutes.

# **Quotes**

"We came across <b>pi-top</b> and fell in love."	RS Components
"The entire system is a great experience for those wanting to learn."	The MagPi – The Official Raspberry Pi Magazine
"This is pretty badass."	John Biggs, East Coast Editor, TechCrunch
"We love this stuff!"	Eben Upton, Founder, Raspberry Pi

# **Social Media**

Platform:	ID / Handle
Twitter	@GetPiTop
Facebook	/GetPiTop
Reddit	pi-top
<u>YouTube</u>	PiTopTeam
<u>LinkedIn</u>	pi-top

Link to pi-top Indiegogo campaign: <a href="https://www.indiegogo.com/projects/pi-top-a-raspberry-pi-laptop-you-build-yourself#/story">https://www.indiegogo.com/projects/pi-top-a-raspberry-pi-laptop-you-build-yourself#/story</a>

# **Pi-top Technical Specifications**

#### Screen

13.3" HD TFT LCD screen
Anti-glare
1366 x 768 resolution
eDP 1.2 interface
262K colours
3W power consumption

# PCB Rail

	pi-top ł	Hub	
	0	Power Management	
	0	Battery Connection	
	0	Screen Driver	
	0	PCB Rail Circuitry	
	Raspbe	erry Pi 3 model B:	
	0	1.2GHz quad-core ARM Cortex-A53	
	0	Bluetooth 4.1 Classic and Bluetooth LE (Low Energy)	
	0	2.4GHz 802.11n WiFi	
	0	Cortex A7 CPU	
	0	1 GB LPDDR2 RAM (900MHz)	
	0	Video CORE IV, 3D graphics core	
	0	Raspbian + pi-topOS.	
	Availab	ole modular add-on boards (separate purchases):	
	0	pi-topPROTO	
		<ul> <li>Raspberry Pi HAT compatible (full GPIO pin access)</li> </ul>	
		<ul> <li>Electronics prototyping area similar to strip board</li> </ul>	
	0	pi-topSPEAKER	
		<ul> <li>High quality SPDIF digital audio from HDMI</li> </ul>	
		<ul> <li>Stereo sound</li> </ul>	
_		2x 2W speakers (40mm x 20mm drivers)	
	Cables	included:	
	0	HDMI Cable	
	0	Micro USB Cable	
	0	GPIO Breakout Cable	
	0	Power Control Cable	
	0	Keyboard USB Cable	
Smart I	Battery:		
	43-wat	t-hour	
		r run time	
		ire SMBus 2.0 Interface	
		ced charge algorithms:	
	0	JEITA recommended profiles with variable current	
П	0 Vast ar	Active cell balancing for extended lifetime rray of protection features: over-voltage, over-current, over-temperature, short-circuit	
	and mo		
Daga/C	haasia		
Base/C		on moulded ABS	
		ard: US/UK QWERTY, DE available end of April.	
	Trackp	ad:	
	0	Right-aligned	
	0	Both Tap-To-Click and physical mouse buttons	
	0	65mm x 49mm	

	custon Rubbe	slice allows easy access to internal hardware - black laser etched surface easy to nise to school emblem or just for fun. rised anti-slip surface contact points		
	Produc	et dimensions:		
	0	341mm x 209mm (WxD)		
	0	Front thickness: 10mm		
	0	Rear thickness: 47mm		
Periphe	erals			
	8GB C	lass 10 SD card preloaded with <b>pi-topOS</b>		
	18V, 3A brick-type power supply - available with AU, BR, CN, EU, IN, ZA, CH, UK and U			
	AC cal	ples.		
	Tool kit for assembly			

#### **FAQs**

### 1. What is pi-top?

Everyone's do-it-yourself Raspberry Pi\* powered laptop kit. The **pi-top** is designed for anyone with a hunger to learn. Express your creativity through technology by becoming a maker and inventor.

#### 2. Who is pi-top for?

There are no boundaries - the **pi-top** is for anyone wanting a greater understanding of computing, learning to code, making hardware, or to play and create! However, we've found the recommended user age to be 8+.

#### 3. What can you do with pi-top?

The list is exhaustive but here are some ideas:

- bring your own robot to life
- learn in-game coding techniques
- create cool 3D printable objects
- build different HATs now with pi-topPROTO
- build weather stations, radios, websites and more
- or even do your homework!

#### 4. Does pi-top work like an actual computer?

Yes, it can do most anything other computers are capable of.

### 5. How do you code on pi-top?

Heard of Python or Java? No? That's fine - as **pi-top** gives you an introduction to these and more programming languages. You can dive into the Linux universe and you are guided through learning Python.

<sup>\*</sup>compatible with most other micro-computers.

# 6. Is pi-top used in the classroom?

Yes. We have worked with 40+ schools on integrating CEED Universe, our MMORPG, with their IT curriculum and we expect the **pi-top** to be used in schools around the world.

# 7. Does pi-top have an Audio system?

Not yet but you can use any AUX speakers you've got and plug them into the Raspberry Pi.

# 8. How does pi-top connect to the internet?

The Raspberry Pi 3 Model B comes with on-board 2.4GHz 802.11n built-in WiFi. Simply click on the network you want to join and simply enter the proper credentials, that's it!