



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

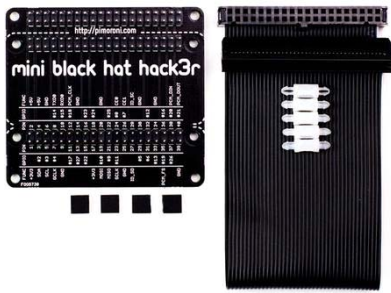
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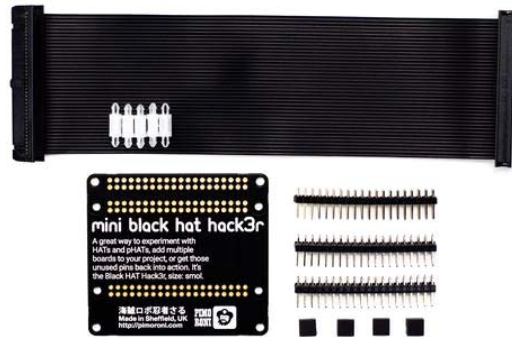
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## Mini Black HAT Hack3r



Fully Assembled **PIM169**



Solder Yourself Kit **PIM170**



PCB only **PIM171**

Need to detach or debug your HAT? Then the Mini Black HAT Hack3r is for you!

A nifty little tool that lets you access all of the GPIO pins while also running a HAT. Ideal for debugging your HAT projects or combining a HAT with other circuits.

- HAT & pHAT landing areas with PCB standoffs
- Includes 40 pin GPIO ribbon cable
- All GPIO pins labelled with function, BCM pin number, physical pin number
- Rubber non-slip feet
- 4 mounting holes
- Comes assembled or in kit form

We made this for ourselves when debugging new HAT designs but found it so gosh-darn useful that we thought you might like it too!

Kits include:

- Black HAT Hack3r PCB
- 40-way black GPIO ribbon cable
- 3 x 40-way pin header (pre-installed on the assembled version)
- 4 x PCB standoff for HAT mounting
- 4 x Rubber non-slip feet