

Adafruit pIRkey - a Python Programmable InfraRed USB Adapter

PRODUCT ID: 3364

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DESCRIPTION

The pIRkey adds an IR remote receiver to any computer, laptop, tablet...any computer or device with a USB port that can use a keyboard. This little board slides into any USB A port, and shows up as an every-day USB keyboard. The onboard ATSAMD21 microcontroller listens for IR remote signals and converts them to keypresses, mouse movements, or even USB serial output.

Coming soon! We want to reprogram our stock with the newest CircuitPython 3.0 before

Infrared is our favorite wireless protocol - no antennas, certifications, pairings, passwords, or special tools required. Works everywhere in the world and very intuitive - everyone's got an IR remote in their home! [Our original IRkey](#) was a small USB-pluggable microcontroller board with an IR receiver, an Attiny85 microcontroller and indicator LED. When certain remote control commands were received, the IRkey would send corresponding keyboard presses. It was great, *but* was not easy to customize - you *had* to use the remote we sold it with.

The **pIRkey** is an improvement on our original IRkey product, by adding a **p** for **python**. Now that we have CircuitPython available for the tiny ATSAMD21E processor, we swapped it for the ATtiny85, giving a huge boost in power and a working Python interpreter on board as well. This means its super easy to reprogram, customize or adapt it to whatever Infrared-reading needs you may have.

When you plug it in, the pIRkey shows up as a triple device: USB disk drive to store code, USB serial for debugging and Python interactive command line, and USB keyboard/mouse that can transmit keypresses or mouse movements.

By default we ship with some very simple example code to read NEC remotes but **you can use any remote that has about 38KHz output frequency which is the vast majority of remote controls**. Here's some ideas: you could use pIRkey to remotely start/stop a program, shut down a computer, control a smart phone or tablet mounted far away, make adaptive controls, etc.

And CircuitPython makes this all very easy to customize and adapt to your own needs. [Check out our learning system guide for usage guide, code examples, schematics, datasheets and more!](#)

TECHNICAL DETAILS

Product Dimensions: 29.0mm x 12.0mm x 5.0mm / 1.1" x 0.5" x 0.2"

Product Weight: 1.7g / 0.1oz



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[Adafruit pIRkey](#)

A Python Programmable InfraRed USB Adapter

MAY WE ALSO SUGGEST...



IR (Infrared) Receiver



Adafruit GEMMA M0 -



Wireless Keyboard and



Miniature Wireless USB



Miniature Keyboard-



Adafruit Trinket M0 - for use



Mini Remote Control



Full Size Wireless Keyboard



Mini Wireless Keyboard -



OSMC RF Remote Control



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are the dreamers of dreams" -
[Arthur O'Shaughnessy](#)*

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