

PrimaryPi

Raspberry Pi Scratch Projects For Primary Education



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How to Install and Connect a bluetooth Keyboard and Mouse to your RasPi

You will need

Trust Bluetooth Dongle (Maplin) versions 3.0 and 4.0 work

Targus bluetooth Keyboard THZ220UK (dell)

Dell bluetooth Mouse WM524 (dell)

1.Install drivers for your bluetooth dongle

Open a terminal window Type in

sudo apt-get install bluez-utils blueman

When prompted "Do you want to continue [Y/n]?" press the "y" key and then "Return" or "Enter".

The Trust bluetooth dongle uses an Atheros chip so you need to install the correct firmware Type in

sudo apt-get install atheros-firmware

When prompted "Do you want to continue [Y/n]?" press the "y" key and then "Return" or "Enter".

Now check that your raspberry pi can detect the Dongle Type in this command

Isusb

You should see something like this:

Bus 001 Device 002: ID 0424:9512 Standard Microsystems Corp.
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 003: ID 0424:ec00 Standard Microsystems Corp.

Bus 001 Device 006: ID 0cf3:3005 Atheros Communications, Inc. AR3011 Bluetooth

2. Connect to the keyboard

Turn your keyboard on using the switch at the front, then press fn + esc at the same time, the red and blue led's will flash

Type in the following command to scan for your keyboard

sudo hcitool scan

pi@raspberrypi ~ \$ hcitool scan Scanning ...

EC:EA:03:47:11:8F Targus Bluetooth 3.0 Keyboard

If your RasPi can't find the keyboard you may need to switch it off and on again these repeat from step 2

Make a note of YOUR keyboard's MAC address. ie: EC:EA:03:47:11:8F

Run this command using YOUR MAC address:

sudo bluez-simple-agent hci0 EC:EA:03:47:11:8F

You will be asked to enter a PIN code. Enter the numbers on your keyboard (displayed far right) and press "Return" or "Enter"

DisplayPasskey (/org/bluez/67298/hci0/dev_EC_EA_03_47_11_8F, 284825)

If you get a cryptic error message ('Creating device failed: org.bluez.Error.AuthenticationRejected: Authentication Rejected').

You will have to make a slight modification to the bluez-simple-agent file, type in the following

sudo nano /usr/bin/bluez-simple-agent

This will open the nano command line text editor. There is one occurrence of 'KeyboardDisplay' you need to replace this with 'DisplayYesNo', close the editor with ctrl-x this will close nano and ask you to save the file press y when prompted

Try the bluez-simple-agent hci0 EC:EA:03:47:11:8F command again.

Your RasPi should display the following:

Release

New device (/org/bluez/2808/hci0/dev_EC_EA_03_47_11_8F)

Now make the device trusted using :

sudo bluez-test-device trusted EC:EA:03:47:11:8F yes

Now connect to the device using:

sudo bluez-test-input connect EC:EA:03:47:11:8F yes

Your keyboard should be working

To install your Mouse repeat the process from step 2 you will not be prompted for a pass key

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