₹/Bulletin®		User Name	Password	Log in	Help	Register	
Dulleum		Remembe	er Me?				
What's New?	orum						
New Posts FAQ Calen	dar Community	Forum Actions	Quick Links		А	dvanced Search	

# ♠ Forum Main Category Technical Support & Questions

How does the Arduino IDE detect on which serial Port the Teensy is attached

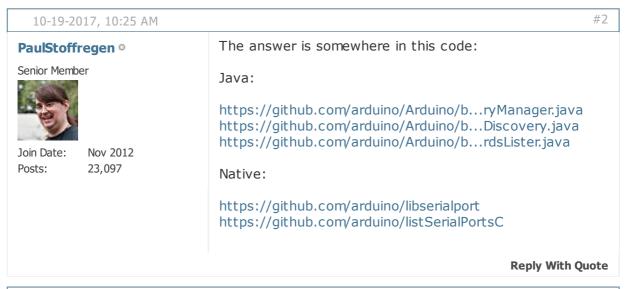
**Forum Rule**: Always post complete source code & details to reproduce any issue!

If this is your first visit, be sure to check out the **FAQ** by clicking the link above. You may have to **register** before you can post: click the register link above to proceed. To start viewing messages, select the forum that you want to visit from the selection below.

Results 1 to 8 of 8

# Thread: How does the Arduino IDE detect on which serial Port the Teensy is attached

	Thread Tools Search Thread Display				
10-19-2017, 10:20 AM	#1				
Olovskos • Junior Member Join Date: Aug 2015 Posts: 9	How does the Arduino IDE detect on which serial Port the Teensy is attached				
	Hi @ all,				
	when I connect my Teensy 3.1 in serial Mode to the PC, the Arduino IDE show under "Port" -> "COM7 (Teensy). How is the Arduino IDE capable of detecting the correct Port?				
	I want to write my own Windows exe that behaves like a terminal program for example like putty but I want to detect automatically which Port Number the Teensy was asigned to.				
	Thanks in Advance				
	Reply With Quote				



..., ..., ..., ...

#### luni 🏻

Senior Member

Join Date: Apr 2014 Location: Germany Posts: 1,232

10-19-2017, 11:10 AM

In case you are using c# for your windows application you can use TeensySharp

https://github.com/luni64/TeensySharp for finding out the port numbers of all connected Teensies.

Here a snippet from the examples

#### Code:

You can also watch the bus in the background and get a notification if Teensies are connected / disconnected.

**Reply With Quote** 

10-19-2017, 12:33 PM

#4

#3

### Olovskos o

Junior Member

Join Date: Aug 2015 Posts: 9 Thank you for your answers, I will dig into the code later, I think the C# code will be pretty straight forward but I think I will convert it to Java because Java it is Platform Independent 

Output

Description:

I just glanced through the code and it seems like the program is just looking for the correct PID/VID. The resulting keyword "Teensy" in "COM7 (Teensy)" is determined intern by the Arduino IDE by the PID/VID or is it the string descriptor of the USB config of the Teensy?

**Reply With Quote** 

10-19-2017, 12:59 PM

#5

## PaulStoffregen o

Senior Member



Join Date: Nov 2012 Posts: 23,097 No matter which language you use, for Windows it always involves Microsoft's oh-so-painful setup API, sometimes even with a bit of configuration manager thrown in. Best if you can reuse code someone else already suffered that setup API pain.

Reply With Quote

10-19-2017, 01:06 PM

#6

### PaulStoffregen o

Senior Member

# Originally Posted by Olovskos

I just glanced through the code and it seems like the program is just looking for the correct PID/VID. The



Join Date: Nov 2012 Posts: 23,097 resulting keyword "Teensy" in "COM7 (Teensy)" is determined intern by the Arduino IDE by the PID/VID or is it the string descriptor of the USB config of the Teensy?

Yes, Arduino's serial discovery manager is just looking at the VID/PID numbers. For the text, it's matching them against these lines from boards.txt:

#### Code:

```
teensy31.vid.0=0x16C0
teensy31.vid.1=0x16C0
teensy31.vid.2=0x16C0
teensy31.vid.3=0x16C0
teensy31.vid.4=0x16C0
teensy31.pid.0=0x0483
teensy31.pid.1=0x0487
teensy31.pid.2=0x0489
teensy31.pid.3=0x048A
teensy31.pid.4=0x0476
```

To actually trace this connectivity you'd probably spend days unraveling the complex Arduino prefs system and the numerous (and perhaps extraneous) classes the Arduino devs have built in the last few years. I don't recommend putting your time into that, unless you're really seriously wanting to become a regular Arduino contributor!

These's also a small (and perhaps ugly) hack Teensyduino patches into the IDE code for SerialBoardsLister.

https://github.com/PaulStoffregen/Ar...079daa9b36R155

Which is the reason you see "(Teensy)" in the menu, rather than "(Teensy 3.2)". I'm definitely not above dirty little hacks if they improve end user experience...

**Reply With Quote** 



pictographer o

10-22-2017, 01:55 AM

Senior Member

I don't have the details handy, but the Python serial library (serialport?) also gives you access to this information and is cross platform.

#8



Join Date: May 2013 Location: San Jose, CA

Posts: 681

**Reply With Quote** 

Quick Navigation

**Technical Support & Questions** 

Top

## « Previous Thread | Next Thread »





PJRC Electronic Projects Archive Top

All times are GMT. The time now is 05:25 PM.

Powered by vBulletin® Version 4.2.2 Copyright © 2020 vBulletin Solutions, Inc. All rights reserved.