

Setup for Using the MassArt-MachineScience Breadboard Arduino

1. Download and install the FTDI Virtual Com Port (VCP) serial drivers that match your hardware and operating system.

<http://www.ftdichip.com/Drivers/VCP.htm>

You will be downloading an installer application that has to be run as an administrator in order to install the drivers.

-- For Windows users, the ".exe" version is easiest.

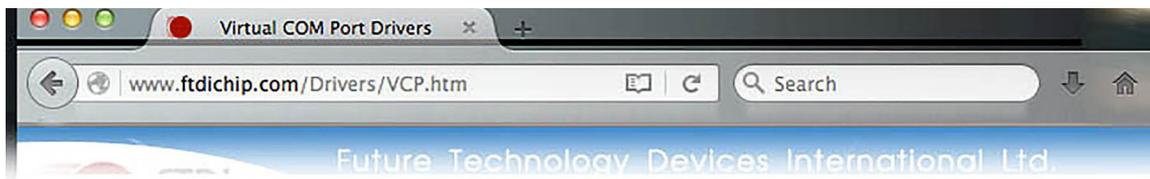
-- For Mac users, you will need to determine which version of the Operating System you are running:



Unless it is a really ancient Mac, it is 64 bit architecture (not PPC). Notice whether it is version 10.9 or later, vs. 10.8 or earlier.

Also note: you may need to make an adjustment to your security settings to install the driver. If you get a dialog box telling you that you can't install from a source that is not an approved Apple Developer or Apple store application, do the following:

- Open System Preferences -> "Security and Privacy" -> General
- Change the setting at the bottom to "Allow Apps from Anywhere".
- Install the FTDI Drivers
- Then change the setting back to where it was.



Currently Supported VCP Drivers:

Operating System	Release Date	Processor Architecture								
		x86 (32-bit)	x64 (64-bit)	PPC	ARM	MIPSII	MIPSIV	SH4		
Windows*	2016-02-02	2.12.14	2.12.14	-	-	-	-	-	2.12.14 R	
Linux	2009-05-14	1.5.0	1.5.0	-	-	-	-	-	All FTDI device 11.10 Refer to TN-101 VII	
Mac OS X 10.3 to 10.8	2012-08-10	2.2.18	2.2.18	2.2.18	-	-	-	-	Refer to TN-105 VID/	
Mac OS X 10.9 and above	2015-04-15	-	2.3	-	-	-	-	-	This drive	
Windows CE 4.2-5.2**	2012-01-06	1.1.0.20	-	-	1.1.0.20	1.1.0.10	1.1.0.10	1.1.0.10		
Windows CE 6.0/7.0	2012-01-06	1.1.0.20 CE 6.0 CAT CE 7.0 CAT	-	-	1.1.0.20 CE 6.0 CAT CE 7.0 CAT	1.1.0.10	1.1.0.10	1.1.0.10	For use of the t and x86 b	
Windows CE 2013	2015-03-06	BETA			BETA				BETA VCP Driv	

2. Download and install the **Arduino** software from the project website:

<http://arduino.cc/en/>

On modern MacBooks and iMacs, the latest version is 1.8.1 (64-bit.)

3. Open the Arduino IDE application and then close it. This will create an “Arduino” folder inside the Documents folder in your user’s directory.

4. To use the MassArt breadboard with the LCD screen, you will have to also have a “hardware” folder installed in your “Documents/Arduino” folder. You can download it here:

<http://www.curiousart.org/arduino/hardware.zip>

Unzip it and then copy the unzipped folder into the Arduino folder that is inside your Documents folder.

5. Restart the Arduino IDE application. Under the “tools” menu, you should see 2 new entries:

- Atmega328 on a breadboard (8MHz internal clock)
- MachineScience + MassArt board

That’s it!