How to Change COM Port Settings

Introduction

Some of Prizmatix's devices include a microcontroller enabling advanced performance and, in some cases, control via a computer running Microsoft Windows[®]. The software sends commands to the device via serial COM Port, while the physical connection is established by a USB cable connecting the device to the PC.

When the USB cable is connected to the PC for the first time, the Windows Operating System performs an automatic configuration of the device by installing drivers. In some cases this default initial configuration needs to be changed. This Application Note provides instruction how to change the current COM Port settings:

- Change of Device Name
- Change of Device COM Port Number

Change of Device Name

As an example we will rename device "Arduino UNO R3" to "Prizmatix DRV".

Click on the Start Menu, and open up the Control Panel.

While in the Control Panel, navigate to System and Security. Next, click on System. Once the System window is up, open the Device Manager.

An alternative way to get to Device Manager is to right click by the mouse on My Computer icon on the desktop and choose Manage from the list.



Main Office	European Sales Office	North America Sales Office
Phone: +972-27-2500097	Phone: +44-(0)77-9172-9592	Phone: +1-(248)-436-8085
Fax: +972-27-2500096	Fax: +44-(0)20-7681-2977	Fax: +1-(248)-281-5236
sales@prizmatix.com	sales.europe@prizmatix.com	sales.usa@prizmatix.com
P.0	.B. 4234 Modiin-Ilite 71919,	Israel

Select Device Manager on the left panel and select the device to be changed (Arduino UNO R3 in this example) in the list of the right panel.



Right click on the device and choose the **Update Driver Software...** option.

File Action View Help	ជា 🙊 សើ		
A Computer Management (Lc	Keyboards	~	Actions
A 👫 System Tools	Mice and other pointing	devices	Device
Description of the second s	Monitors		Ma
Event Viewer	Network adapters		WIO
Bared Folders	Other devices		
A Local Users and Group	 Ports (COM & LPT) 		il i
Performance	- Arduino UNO R3 (CO	M6)	u
🚔 Device Manager	ECP Printer Port (L	Update Driver So	oftware 🔫
🔺 📇 Storage	Processors	Disable	
Disk Management	Smart card readers	Uninstall	
Services and Application	 Sound, video and gan Storage controllers 	Scan for hardwa	re changes
* III +	b-IN System devices	Properties	

Main Office North America Sales Office **European Sales Office** Phone: +44-(0)77-9172-9592 Phone: +972-27-2500097 Phone: +1-(248)-436-8085 +972-27-2500096 +44-(0)20-7681-2977 +1-(248)-281-5236 Fax: Fax: Fax: sales.europe@prizmatix.com sales.usa@prizmatix.com sales@prizmatix.com P.O.B. 4234 Modiin-Ilite 71919, Israel

The **Update Driver** dialog window will appear. Choose the 2nd option: **Browse my computer** for driver software



On the next screen select: Let me pick form a list of device drivers on my computer

Browse	e for driver so	oftware on your	computer		43		
Search fo	or driver software	e in this location:					
C:\Adru	ino\ardu <mark>in</mark> o-1.0.1	1\drivers		•	Browse		
menac	e subtolders						
 Le Thi dri 	t me pick fro s list will show in ver software in th	m a list of device Istalled driver softwa he same category as	ce drivers on r are compatible wi the device.	my c th the	computer e device, and	r d all	

Main Office	in Office European Sales Office	
Phone: +972-27-2500097	Phone: +44-(0)77-9172-9592	Phone: +1-(248)-436-8085
Fax: +972-27-2500096	Fax: +44-(0)20-7681-2977	Fax: +1-(248)-281-5236
sales@prizmatix.com	sales.europe@prizmatix.com	sales.usa@prizmatix.com
P.0	.B. 4234 Modiin-Ilite 71919,	Israel

Click on Have Disk button

Select the ma have a disk th	anufacturer a hat contains	and model of your hardware device and then click Next. If you the driver you want to install, click Have Disk.
Show compatible h	nardware	Model
ricsson GC25	=	HP Communications Port
TDI Hewlett Packard		HP Printer Port
Aicrosoft	-	
1	•	

Click on Browse... button



Navigate to the specific driver INF file. For example for the Prizmatix Pulser in most cases the driver will be located at:

C:\Program Files\PrizmatixPulser\Drivers\Prizmatix DRV.inf

Main Office	European Sales Office	North America Sales Office
Phone: +972-27-250009	7 Phone: +44-(0)77-9172-9592	Phone: +1-(248)-436-8085
Fax: +972-27-250009	6 Fax: +44-(0)20-7681-2977	Fax: +1-(248)-281-5236
sales@prizmatix.com	sales.europe@prizmatix.com	sales.usa@prizmatix.com
P	.O.B. 4234 Modiin-Ilite 71919,	Israel

Select the driver INF file and click on Open

Locate File					×
Look jn:	👢 Drivers		- 0) 🤣 🔛 🖽 🕇	
Recent Places Desktop Libraries Computer	Name FTDI USB [Prizmatix [Drivers DRV.inf	Date modified 10/03/2013 15:4 17/01/2013 13:0	Typ 14 File 00 Setu	e folder .p Information
Network	•		III		
	File name:	Prizmatix DRV.inf		•	Open
	Files of type:	Setup Information	(*.inf)	•	Cancel

The following dialog will appear. Click **OK** to proceed.



Main Office		European Sales Office		North	America Sales Office
Phone: +972-2	27-2500097	Phone:	+44-(0)77-9172-9592	Phone:	+1-(248)-436-8085
Fax: +972-2	27-2500096	Fax:	+44-(0)20-7681-2977	Fax:	+1-(248)-281-5236
sales@prizmatix	prizmatix.com sales.europe@prizmatix.com		sales.us	sa@prizmatix.com	
	Ρ.Ο	.B. 423	4 Modiin-Ilite 71919,	Israel	

The following dialog will appear. Click on **Next** button.



A new window will appear, immediately followed by a further window related to **Windows Security**. Click on **Install this driver software anyway**

Update Driver Soft	vare - Arduino UNO R3 (COM6)	X	
Installing driver so	tware		
1		-	
0	Windows Security		_ X
	Windows can't verify the publishe	er of this driver softwa	re
	Don't install this driver softway You should check your manufacturer's your device.	are website for updated driver so	oftware fo
	Install this driver software any	yway	
-	 Only install driver software obtained fr Unsigned software from other sources information. 	rom your manufacturer's web may harm your computer or	site or dis steal
6	See details		

The **Windows Security** window will be closed and the installation will continue. This may take few minutes. **Do not close** the window until the completion window will appear:

Main Office		European Sales Office		North /	America Sales Office
Phone: +972-27	-2500097	Phone:	+44-(0)77-9172-9592	Phone:	+1-(248)-436-8085
Fax: +972-27	-2500096	Fax:	+44-(0)20-7681-2977	Fax:	+1-(248)-281-5236
sales@prizmatix.c	com	sales.eu	Irope@prizmatix.com	sales.us	a@prizmatix.com
	P.O.	B. 423	4 Modiin-Ilite 71919,	Israel	



Click on Close, the new device name will appear now at Device Manager.



Main Office	European Sales Office	North America Sales Office
Phone: +972-27-2500097	Phone: +44-(0)77-9172-9592	Phone: +1-(248)-436-8085
Fax: +972-27-2500096	Fax: +44-(0)20-7681-2977	Fax: +1-(248)-281-5236
sales@prizmatix.com	sales.europe@prizmatix.com	sales.usa@prizmatix.com
P.C	B. 4234 Modiin-Ilite 71919,	Israel

Change of Device COM Port

As an example we will change the Prizmatix DRV (COM6) to Prizmatix DRV (COM2).

Click on the Start Menu, and open up the Control Panel

While in the **Control Panel**, navigate to **System and Security**. Next, click on **System**. Once the **System** window is open, click on the **Device Manager**.

An alternative way to get to **Device Manager** is to right click on the mouse button on the **My Computer** icon on the desktop and choose **Manage** from the list.



Select **Device Manager** on the left panel and choose the device which COM Port number to be changed (Prizmatix DRV (COM6) in this example) in the list of the right panel.



Main Office	European Sales Office	North America Sales Office
Phone: +972-27-2500097	Phone: +44-(0)77-9172-9592	Phone: +1-(248)-436-8085
Fax: +972-27-2500096	Fax: +44-(0)20-7681-2977	Fax: +1-(248)-281-5236
sales@prizmatix.com	sales.europe@prizmatix.com	sales.usa@prizmatix.com
P.C	D.B. 4234 Modiin-Ilite 71919,	Israel

Right click the device name in the Device List and select **Properties**



The **Properties** dialog will appear. Select **Port Settings** tab and click on the **Advanced...** button.

Prizmatix DRV (COM6) Properties					
General PortSettings Driver Details					
Bits per second: 9600 💌					
Data bits: 8					
Parity: None					
Stop bits: 1					
Elow control None					
Advanced					
OK Cancel					

Note: In most cases there is no need to change Port Setting such as Bits per Second, Data Bits, Parity..., since these settings are set by the control software itself.

Main Office	European Sales Office	North America Sales Office
Phone: +972-27-2500097	Phone: +44-(0)77-9172-9592	Phone: +1-(248)-436-8085
Fax: +972-27-2500096	Fax: +44-(0)20-7681-2977	Fax: +1-(248)-281-5236
sales@prizmatix.com	sales.europe@prizmatix.com	sales.usa@prizmatix.com
P.O	.B. 4234 Modiin-Ilite 71919,	Israel

Select the required COM Port number and press **OK** to close the dialog box.

Press **OK** to close the **Properties** dialog.

anced Settings for COM6		
✓ Use FIFO buffers (requires 16550 compatible UART)		ок
Select lower settings to correct connection problems.	/	Cancel
Select higher settings for faster performance.		Calicer
Receive Buffer: Low (1)	High (14) (14)	Defaults
Transmit Buffer: Low (1)	High (16) (16)	
COM Port Number: COM6		
COM1		
COM3 (in use) COM4 (in use) COM5 (in use) COM6		

Now the updated COM Port number will appear in the device list:



Main Office	European Sales Office	North America Sales Office
Phone: +972-27-2500097	Phone: +44-(0)77-9172-9592	Phone: +1-(248)-436-8085
Fax: +972-27-2500096	Fax: +44-(0)20-7681-2977	Fax: +1-(248)-281-5236
sales@prizmatix.com	sales.europe@prizmatix.com	sales.usa@prizmatix.com
P.0	.B. 4234 Modiin-Ilite 71919,	Israel