

Connecting a Proteus via an RS-232 Adapter

Connecting your Proteus to your PC via an RS232 can occasionally be hindered by USB driver issues. There are two versions of the RS232 USB adapter in circulation; a serial version, and an RS232GT chipset version. Both are functionally identical for the purposes of connecting to your Proteus.

To check the version you have connect your adapter to the USB port (either directly or using your USB cable) and checking Device Manager on your PC (type "dev" in to the search on your taskbar). Under "Ports (COM & LPT)" check whether your adapter is named "Prolific USB-to-Serial Comm Port (COMX)" or "Prolific PL2303GT USB Serial PORT (COMX)"

Common faults when frequently disconnecting and reconnecting the Proteus can be resolved by following the "Connection Sequence for RS232 Adapters" section at the end of this document.



Prolific USB-to-Serial Comm Port

This type of adapter identifies by the USB (COM) port and should never require any additional action in order to connect.

Prolific PL2303GT USB Serial PORT

This adapter is assigned its own COM identity by the PC. Adapters with a PL2303GT type mean that some users may need to adjust settings and process to successfully connect. Please follow this guide carefully if you experience issues with your "USB>RS-232>Data/Marine cable" connection.

Windows 11

This first process resolves the majority of Windows 11 issues.

- 1. From Device Manager and drop the menu for "Ports (COM & LPT)"
- 2. Right click on the "Prolific PL2303GT USB Serial COM Port" option and select "Properties"



- 3. Open the Power Management tab
- 4. <u>Un</u>check "Allow the computer to turn off this device to save power" and "Allow this device to wake the computer" and select "OK".

Tonne i	2230301 030	Senares	OMIFOIL	(COMIT/	Properties	^
General	Port Settings	Driver	Details	Events	Power Management	
	Prolific PL230	3GT US	B Serial C	OM Port	(COM17)	
	the computer t	o turn off	this devic	e to save	power	
	this device to v	vake the	computer			

5. Disconnect and then reconnect the RS232 adapter.

The adapter should now function. If it fails to do so please also complete the following process;

- 1. Follow the steps above to navigate to the Ports section of Device Manager.
- 2. Right click on the device, and select "Update Drivers".

If you still experience issues please contact Proteus Support.

Windows 10

1. On your Proteus USB stick select and extract the folder "PL23XX_Prolific_DriverInstaller_v208"

	Extract	USB Drive (E:)						
Con	npressed Folder Tools							
th ortcut	Move Copy to* Copy	Rename N fol	New item ▼ Easy access ▼ ew	Properties	H Select all Select none I Invert selection			
	Organise		New	Open	Select			
>						~	G	
Name	^		Date modified	Туре	Size			
🔤 8 W	/ays to Power a Proteus		22/12/2020 09:44	Microsoft Edge P	1,434 KB			
🚾 Cal	ibrating the CDOM Fluoro	meter For C	20/11/2020 14:08	Microsoft Edge P	247 KB			
🖻 Cal	ibrating the Tryptophan Fl	uorometer	02/03/2021 09:29	Microsoft Edge P	1,034 KB			
Clie	ent Temperature Compens	ation Calcul	11/11/2020 10:39	Microsoft Excel W	15 KB			
PL2	3XX_Prolific_DriverInstalle	r_v208	15/11/2022 16:38	Compressed (zipp	11,044 KB			
👘 Pro	teus Manager Software		15/02/2021 09:51	Windows Installer	2,153 KB			
Pro	teus Manager Software		30/03/2021 15:41	Compressed (zipp	1,848 KB			
👼 Pro	teus SDI12 MODBUS outpu	ut operating	22/12/2020 09:45	Microsoft Edge P	614 KB			
👼 Pro	teus-Communication-Pro	tocol	12/04/2021 11:46	Microsoft Edge P	187 KB			
👼 Pro	teus-user-manual-v2.2		01/03/2021 16:20	Microsoft Edge P	83,845 KB			
💼 RS2	32 Proteus Communicatio	ons_Protoco	20/03/2020 14:00	Microsoft Edge P	209 KB			
👼 SOI	P for Sampling for Proteus	Derived Par	11/11/2020 11:05	Microsoft Edge P	127 KB			

2. Select the file "PL23XX-M_LogoDriver_Setup_v208_20211221" and "Run" it. Give permissions to make changes and run all stages of the install.

Extract	PL23XX_Prolific_Dr	iverInstaller_v208					
Compressed Folder Tools							
📰 Pictu	ıres		Proteus 10225859	*			
1022	5862		pics for usb guide	*			
📒 Calc	erts		Easyprobe 09225817	₹	Extract		
	E	Extract To					
> PL23XX_Prolific_DriverInstall	er_v208 > PL23XX_F	Prolific_DriverInstaller_v208		・ Cシ Search PL2	3XX_Prolific_Driv	verinstaller_v2	208
Name		Туре	Compressed size	Password prot Size		Ratio	Date modified
PL23XX_CheckChipVersion_	ReadMe	Text Document	1 KB	No	3 KB	65%	03/02/2021 10:27
PL23XX_checkChipVersion_v	v1020	Application	95 KB	No	208 KB	55%	06/11/2019 10:19
PL23XX_DriverInstallerv2.0.8	ReleaseNote	Text Document	2 KB	No	6 KB	70%	21/12/2021 09:59
PL23XX-M_LogoDriver_Setu	ip_v208_20211221	Application	9,386 KB	No	10,060 KB	7%	21/12/2021 10:13
PL2303 Windows Driver Man	nual v1.23.0	Microsoft Edge PDF Document	1,560 KB	No	1,815 KB	15%	17/06/2019 15:04

- 3. Restart your computer.
- 4. Connect the RS-232 Adapter to a USB port using the USB cable.
- 5. Open "Device Manager" on your computer and drop the Ports (COM & LPT).

6. Right click on the "Prolific PL2303GT USB Serial COM Port" option and select "Properties".



7. Check that the Driver installation has been successful by selecting the "Driver" tab. The "Driver Version" field should read "5.1.3.0" (to 5.1.6.0). If this is correct go to Step 8. If this is incorrect follow Steps from 7a as required. If you have previously followed 7a and 7b and your issue has not been resolved then skip to 7c.

General	Port Settings	Driver	Details	Events	Power Management				
	Prolific PL230	3GT US	B Serial C	OM Port	(COM5)				
	Driver Provide	er: Pr	olific						
	Driver Date:	10	/11/202	1					
	Driver Version: 5.1.3.0								
	Digital Signer	Mi Pu	icrosoft W ublisher	/indows H	lardware Compatibility				
Dri	ver Details	View	details at	bout the ir	nstalled <mark>driver files</mark> .				
Upd	date Driver	Upda	ate the dri	ver for thi	s device.				
Roll	Back Driver	If the back	device fa to the pr	ails after u eviously ir	pdating the driver, roll nstalled driver.				
Disa	Disable the device.								
Unin	istall Device	Unin	stall the d	evice from	n the system (Advanced).			

a. If your Drivers have not updated run the Setup again from Step 1. This time it will offer you 3 options; "Modify", "Repair", "Remove" (Remove all installed features). Select "Remove".

PL23XX USB-to-	-Serial Driver Installer Program	\times
Welcome Modify, repai	r, or remove the program.	
Welcome to modify the cu	the PL23XX USB-to-Serial Setup Maintenance program. This program lets you urrent installation. Click one of the options below.	
	Select new program features to add or select currently installed features to remove.	
O Repair	Reinstall all program features installed by the previous setup.	
Remove Remove InstallShield	Remove all installed features.	
n ressanse i distitut	Next > Cancel	

- b. Next run the Setup from Step 1 again and continue through to Step 7.
- c. If the Drivers are still not showing version "5.3.1.0" return to the "Driver" tab (see steps 5 to 7). Select "Update Drivers".

Prolific U	SB-to-Serial C	Comm Po	ort (COM	18) Prop	oerties	×	<
General	Port Settings	Driver	Details	Events			
	Prolific USB-to	o-Serial (Comm Poi	t (COM18	B)		
	Driver Provide	er: Pr	olific				
	Driver Date:	11	/11/2021				
	Driver Version	n: 3.	8.41.0				
	Digital Signer	M Pt	icrosoft W ublisher	indows H	ardware Cor	npatibility	
Dri	ver Details	View	details at	oout the ir	nstalled drive	r files.	
Up	date Driver	Upda	ate the dri	ver for this	s device.		
Roll	Back Driver	If the back	device fa to the pre	ils after u eviously in	pdating the c stalled driver	lriver, roll	
Disa	able Device	Disa	ble the de	vice.			
Unir	stall Device	Unin	stall the d	evice fron	n the system	(Advanced).	
					ОК	Cancel	

d. Select "Browse from Computer".



e. Select "Let me pick from a list of available drivers on my computer".

		×
←	Update Drivers – Prolific USB-to-Serial Comm Port (COM18)	
	Browse for drivers on your computer	
	Search for drivers in this location:	
	C:\Users\Darren.Louch\Desktop\PL23XX_Prolific_DriverInstaller_v208 Browse	
	☑ Include subfolders	
	→ Let me pick from a list of available drivers on my computer	
	This list will show available drivers compatible with the device, and all drivers in the same category as the device.	
	Next C	ancel

f. Select "Prolific PL2303GT USB Serial Port Version; 5.3.1.0 [10/11/2021]" from the available options and select "Next".

1213		
📕 Up	date Drivers – Prolific PL2303GT USB Serial COM Port (COM5)	
Selec	t the device driver you want to install for this hardware.	
0	Select the manufacturer and model of your hardware device and then cl disk that contains the driver that you want to install, click Have Disk.	lick Next. If you have
✓ Sho Mod	el	
✓ Sho Mode	w compatible hardware el olific PL2303GT USB Serial COM Port Version: 5.1.3.0 [10/11/2021]	
Mode	w compatible hardware el olific PL2303GT USB Serial COM Port Version: 5.1.3.0 [10/11/2021] olific PL2303GT USB Serial COM Port Version: 5.1.4.0 [26/05/2022]	
Modu Pr Pr	w compatible hardware el olific PL2303GT USB Serial COM Port Version: 5.1.3.0 [10/11/2021] olific PL2303GT USB Serial COM Port Version: 5.1.4.0 [26/05/2022] his driver is digitally signed.	Have Disk
Modu Pr Pr	el olific PL2303GT USB Serial COM Port Version: 5.1.3.0 [10/11/2021] olific PL2303GT USB Serial COM Port Version: 5.1.4.0 [26/05/2022] his driver is digitally signed. ell me why driver signing is important	Have Disk

g. Allow any requested system permissions and allow Windows to update the Drivers.



8. In "Properties" select the "Port Settings" tab and change "Bits per second" to 9600 and "OK".

eneral	Port Settings	Driver	Details	Events	Power Management
		Bits p	er second	9600	•
			Data bits	8	•
			Parity	None	•
			Stop bits	1	•
		Flo	ow control	None	•
			Ac	lvanced	. Restore Default

9. In Properties select the "Power Management" tab and uncheck "Allow the computer to turn off this device to save power" and "Allow this device to wake the computer" and select "OK".

General	Port Settings	Driver	Details	Events	Power Management	
	Prolific PL230	3GT US	B Serial C	OM Port	(COM17)	
	the computer t	o turn off	this devic	e to save	power	
	this device to v	vake the	computer			

10. Follow the steps in the section "Connection Sequence for RS-232 Adapters".

Connection Sequence for RS-232 Adapters

The PL2303GT chip may be sensitive to Input and Output sequence with frequent disconnection and reconnection. Please follow the relevant guide for Data Cable or Marine Cable as applicable. As a rule of thumb work outwards from the USB port. The Marine cable sequence should be used when connecting a Data cable using an additional 12v adapter.

Data Cable Connection Sequence

1. Connect the USB cable to the desired COM port.



2. Connect the RS-232 Adapter to the USB cable.



3. Connect the DB9 end of the Data cable to the RS-232 adapter and tighten the screws.



4. Connect the Data cable to the Proteus unit.



5. Your Proteus should now be connected.



Marine Cable Connection Sequence

1. Connect the USB cable to the desired COM port.



2. Connect the RS-232 Adapter to the USB cable.



3. Insert the 12v power cable in to the RS-232 adapter.



4. Connect the DB9 end of the Marine cable to the RS-232 Adapter and tighten the screws.



5. Connect the Marine cable to the Proteus unit and screw the holding cover in to position.



6. Your Proteus should now be connected.

