



How to configure windows to work with Teseo evaluation boards

ADG/Positioning – Marketing

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1 Introduction

2 Mouse pointer out-of-control

COM port number continues to increase





1 Introduction

2 Mouse pointer out-of-control

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Introduction

Customers have reported certain issues that occur with Windows® when Teseo3 evaluation boards are plugged into the PC:

- Mouse pointer moves erratically and is impossible to control
- COM port number continuously increases

Both the issues are related to Microsoft Windows and NOT the ST Teseo3 evaluation platform;

For each issue, two solutions are proposed.





1 Introduction

Mouse pointer out-of-control

COM port number continues to increase





Mouse pointer out of control

• Symptom: Mouse pointer moves erratically and is impossible to control

• **Diagnosis**: It's a well-known Microsoft Windows issue (https://support.microsoft.com/en-us/help/819036/overview-of-the-comdisable-tool); Windows recognizes the Teseo3 evaluation board as a 'serial mouse'.

 The Microsoft serial-mouse driver takes control of the port (which is seen now as a mouse) and the mouse pointer becomes impossible to control.





Disable the serial-mouse driver in the Windows Registry:

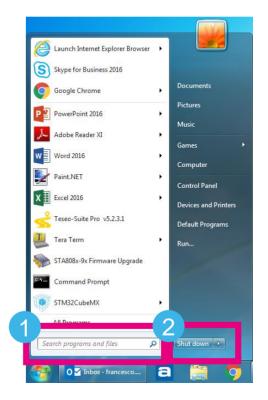
1 In the run-command entry, run the following command:

REG ADD "HKLM\SYSTEM\CurrentControlSet\Services\sermouse" /V Start /T REG DWORD /F /D 4

2 Restart the PC

Note: The serial-mouse driver manages very old, legacy mice. So, even when disabled, standard mouse and touchpads will work without problem.







If Solution 1 doesn't work, rename the serial-mouse driver file:

1 In the Command Prompt, run as administrator the following command:

Rename c:\Windows\System32\drivers\sermouse.sys
c:\Windows\System32\drivers\bkp sermouse.sys

2 Restart the PC





Note: The serial-mouse driver manages very old, legacy mouse. So, even when disabled, standard mice and touchpads will work without problem.



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3 COM port number continues to increase





COM port number continues to increase

• **Symptom**: When plugging and unplugging Teseo3 evaluation boards, the COM port number seen by Windows continuously increases.

• **Diagnosis**: Windows maintains the COM port locked and when a new evaluation board is plugged into the PC, a new COM port is instantiated. Restarting the PC will not free the COM port.



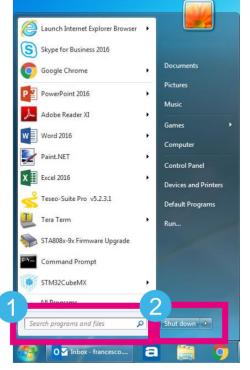


1 In the run-command entry, run the following command:

REG ADD "HKLM\SYSTEM\CurrentControlSet\Control\COM Name Arbiter" /V ComDB /T REG BINARY /F /D

2 Restart the PC

This command frees all COM ports, resetting the counter to zero







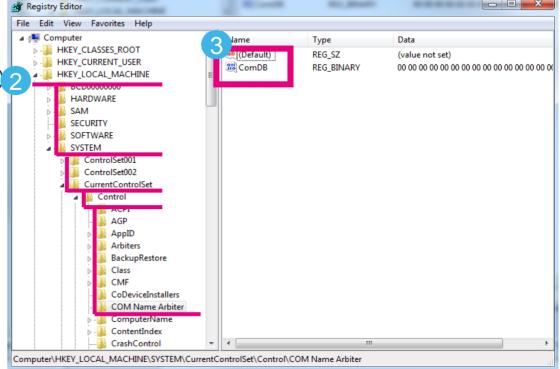
If Solution 1 doesn't work, use the Windows Regedit tool:

- 1 In the run-command entry, run 'regedit'
- 2 Follow the path:

HKLM\SYSTEM\CurrentControlSet\Control\COM Name Arbiter

3 Set 'ComDB' to:









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Documents & related resources

All documents are available on: www.st.com

- Teseo III: Webpage
 - Datasheet of all PNs;
- Teseo-Module: Webpage
 - Datasheet
- Teseo Suite: Webpage
 - Datasheet
 - Install program

