

UltimET PCI/PCle drivers TECHNICAL NOTE

1. Upgrading UltimET PCI/PCle driver

Starting from EDI 4.22A and ComET 4.22A, the PCI driver version 14.1.1 is available for the UltimET motion controllers. This driver version is signed and supports Windows 10 versions 506, 1511, 1607, 1703, 1709, 1803, 1809, 19H1, RS1 to RS5.

If your UltimET motion controller was installed with a former driver version (10.2.1 or 11.1.0), it is advised to upgrade it to this newer version (14.1.1).

NOTE:

Be aware that your application MUST use at least EDI-4.22A to be able to use this newer driver version 14.1.1. On the other hand, an application based on EDI-4.22A can use as well former driver versions 10.2.1 or 11.1.0.

Before upgrading the driver, no application must be connected to the UltimET motion controller. It is recommended to upgrade the driver on a recently booted PC.

Upgrading on Windows 7/8/10 32-bit

1. Uninstall the current driver

- Right-click on the “wdreg.exe” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-32bits/Version<old-driver>
To ensure a successful driver installation, the following step is mandatory:
Select Property→Compatibility and check the box “Execute this program as administrator”.
- Run the “uninstall_ultimet(_pci).bat” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-32bits/Version<old-driver>

2. Install the new driver

- Right-click on the “wdreg.exe” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-32bits/Version<new-driver>
To ensure a successful driver installation, the following step is mandatory:
Select Property→Compatibility and check the box “Execute this program as administrator”.
- Run the “install_ultimet(_pci).bat” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-32bits/Version<new-driver>

Upgrading on Windows 7/8/10 64-bit

1. Uninstall the current driver

- Right-click on the “wdreg.exe” file that can be found in the ComET installation directory under the folder:
/driver/ Win7-8 or Win10/ultimet/pci-pcie/Win-64bits//Version<old-driver>
To ensure a successful driver installation, the following step is mandatory:
Select Property→Compatibility and check the box “Execute this program as administrator”.
- Run the “uninstall_ultimet(_pci).bat” file that can be found in the ComET installation directory under the folder:

/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-64bits//Version<old-driver>

2. Install the new driver

- Right-click on the “wdreg.exe” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-64bits/Version<new-driver>
To ensure a successful driver installation, the following step is mandatory:
Select Property→Compatibility and check the box “Execute this program as administrator”.
- Run the “install_ultimet(_pci).bat” file that can be found in the ComET installation directory under the folder:
/driver/ Win7-8 or Win10/ultimet/pci-pcie /Win-64bits/Version<new-driver>

2. Installing UltimET PCI/PCle on Windows

UltimET PCI/PCle motion controllers can be installed on Windows 7/8/10, **32-bit operating systems**.

Starting from EDI 3.10A and ComET 2.05A, UltimET motion controllers are also available for Windows 7/8/10, **64-bit operating systems**.

Starting from EDI 4.11A and ComET 4.11A, the user can communicate with the UltimET PCle motion controller.

NOTE:

UltimET PCle motion controller is MSI capable. To use this capability, install at least UltimET driver version 11.1.0 and UltimET PCle firmware version 3.01A.

Installation on Windows 7/8/10 32-bit

1. Right-click on the “wdreg.exe” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-32bits/Version<last>

To ensure a successful driver installation, the following step is mandatory:
Select Property→Compatibility and check the box “Execute this program as administrator”.
2. Run the “install_ultimet(_pci).bat” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie /Win-32bits/Version<last>
3. Shutdown the PC.
4. Plug-in the UltimET PCI/PCle motion controller.
5. Restart the PC.
6. Windows will detect the new hardware.

Installation on Windows 7/8/10 64-bit

1. Right-click on the “wdreg.exe” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-64bits/Version<last>

To ensure a successful driver installation, the following step is mandatory:
Select Property→Compatibility and check the box “Execute this program as administrator”.
2. Run the “install_ultimet(_pci).bat” file that can be found in the ComET installation directory under the folder:
/driver/Win7-8 or Win10/ultimet/pci-pcie/Win-64bits/Version<last>
3. Shutdown the PC.
4. Plug-in the UltimET PCI/PCle motion controller.
5. Restart the PC.
6. Windows will detect the new hardware.

3. Installing UltimET PCI/PCle on Windows RTX64 4.0

Starting from EDI 4.17A, UltimET PCI motion controllers can be installed on Windows RTX, **64-bit operating systems**.

NOTE:

UltimET PCle motion controller is MSI capable. To use this capability, install at least UltimET driver version 11.1.0 and UltimET PCle firmware version 3.01A.

If the UltimET motion controller was never installed before, start first by installing for Windows, following the instructions given in chapter “**2 – Installing UltimET PCI/PCle on Windows**”.

Otherwise, it is only required to upgrade the driver with the RTX64 driver version as follows:

1. Go to Control Panel.
2. Select the ‘System’ option.
3. Go to the ‘Hardware’ tab.
4. Press the ‘Device Manager’ button.
5. Select the JUNG0 boards from the list.
6. Right-click on the UltimET-light PCI or UltimET-light PCle board and select the ‘Properties’ menu.
7. Go to the ‘Driver’ tab and select the ‘Update Driver’ button.
8. When the assistant starts, press ‘Next’ and choose the option ‘Display the list of available drivers...’.
9. Next, choose to install from a ‘Provided disk’.
10. Select the folder
driver\Win7-8 or Win10\ultimet\pci-pcie\RTX64
of your ComET installation directory
11. Press twice on ‘Next’ button.
12. Windows will install the driver. It can happen that Windows requests to restart the PC after the installation.

NOTE:

RTX64 cannot share interrupts between PCI/PCle boards driven by Windows and driven by RTX64. If you use UltimET PCI, you must select an interrupt that is exclusively used by the RTX board. This is not requested for UltimET PCle, thanks its MSI capability which will automatically use a unique IRQ.