HLK3 Upgrade Procedure
Introduction

This document details the procedure for installing the hardware and software components required for upgrading a Plexon® Multichannel Acquisition Processor (MAP) Data Acquisition System from a RASPUTIN v2 HLK2 System to a RASPUTIN v2 HLK3 System.

Required Hardware Components

**Computer**

It is highly recommended that you purchase a computer from Plexon so that it can be optimally configured as a MAP controller.

If you are not purchasing the computer directly from Plexon, verify that your computer meets these requirements: 4 or 6 Core, 64 bit, with a Windows® 7 Operating System.

**HLK3 hardware requirements**

1) Computer component – Digital I/O card PCIe-6535b
2) MAP component – HLK3 board
3) HLK3 cable

Document History

December, 2016 – V1.0

- Initial issue of the MAP HLK3 upgrade procedure document.

*NOTE* Never unplug the link cables when the MAP chassis is on!
Procedure

To begin the HLK3 upgrade, remove the HLK2 cable.

Remove the HLK2 board from the MAP chassis.
Open the new computer and remove the slot cover.

Locate the PCIe slot as shown below.

The digital I/O card PCIe-6535b will go in this PCIe slot.
Insert the new PCIe-6535b in the computer as shown.

Close the computer and connect the HLK3 cable, AC power, mouse, keyboard…etc.
Insert the HLK3 board into the MAP chassis.
Connect the HLK3 cable to the HLK3 board.
Power on the MAP chassis and computer.

Download the device driver NI-DAQmx 9.6.1 (this can be found at www.ni.com).

Follow the prompts to install the driver.

When you see this dialog, select Custom.
When you see the following dialog, select “Do not install this feature” for the NI Browser.

Continue to follow the prompts to complete the NI Driver installation.
After the NI Driver installation is done, reboot the computer.

Open the device manager on the computer as follows:

- Right click on "Computer" in Windows Explorer; then select Manage.
- In the Computer Management dialog, select Device Manager.

Verify that the Data Acquisition Device PCIe-6535 is found as shown.
Open Measurement & Automation Explorer and verify that the NI PCIe-6535 is found. It must be named Dev1. Right click on the device and rename it if necessary.
Go to [www.Plexon.com](http://www.Plexon.com) and navigate to the Support tab, select Software Downloads, click on Multichannel Acquisition Processor (MAP) Data Acquisition System, and click on RASPUTIN v2 HLK3 System. Follow the prompts to install the RASPUTIN v2 HLK3 System software.
Reboot the computer when RASPUTIN installation is complete. Double click the Server icon on the desktop to launch MAP.

Click View on the Server tool bar and select options.
Verify that the box options are configured with HLK3 selected, HLK3 device number is 1, and COM port is 1. Click OK when finished.

Launch SortClient to verify HLK3 is operating properly. At this point the HLK3 Upgrade is complete.