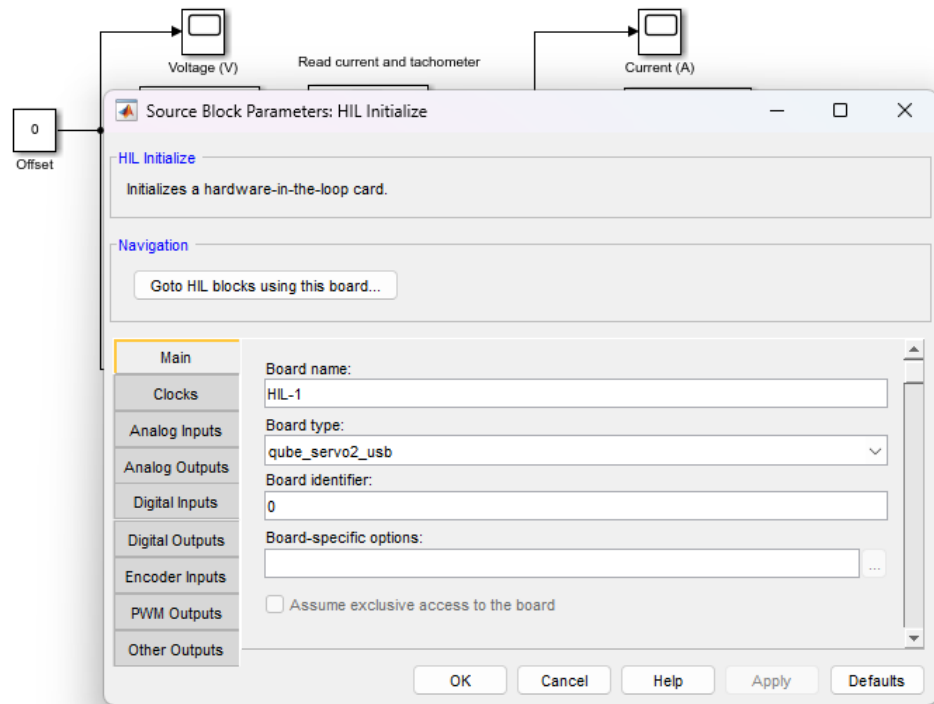
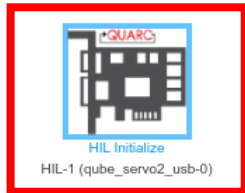


Simulink Setup for Qube-Servo 3 Hardware Users

QUBE-Servo 2 labs are compatible with Qube-Servo 3. There are just two simple steps to get the Simulink files working with your Qube-Servo 3.

1. Locate the **HIL Initialize block** in your Simulink model and double click on it.



2. Change the **board type** in the parameter window from qube_servo2_usb to qube_servo3_usb.



3. Your model will now work with a Qube-Servo 3.

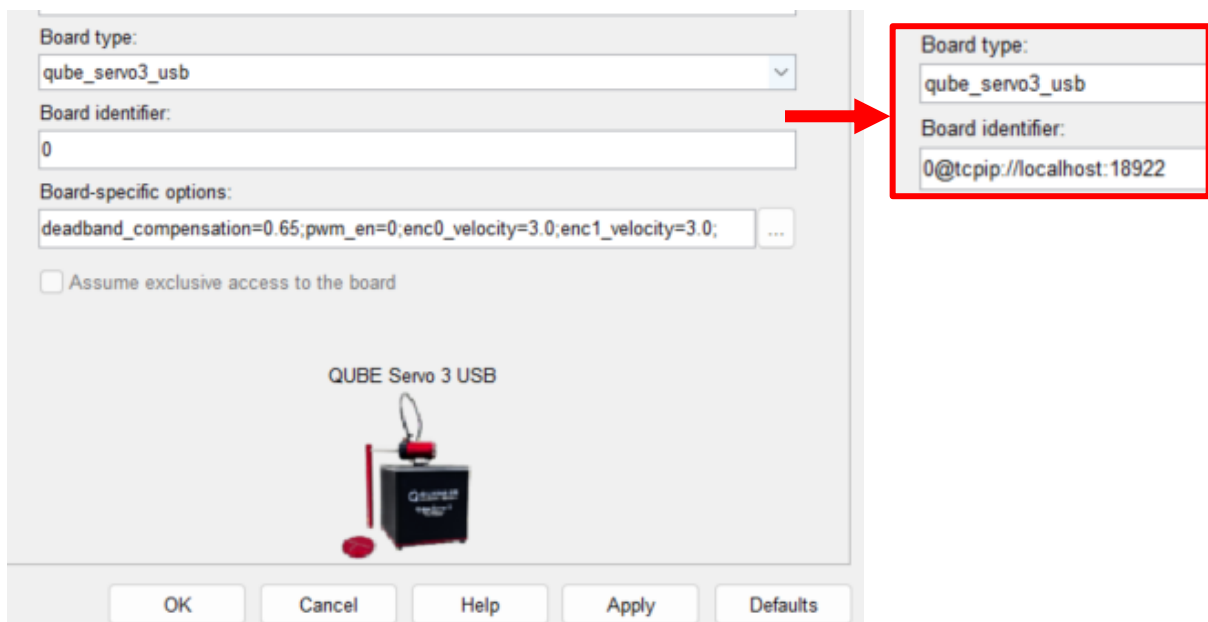
Simulink Setup for Virtual Qube-Servo 3 Users

1. Follow the instructions above to change from qube_servo2_usb to qube_servo3_usb.



The diagram illustrates the change in the Board type field. On the left, the 'Board type' dropdown menu is open, showing 'qube_servo2_usb' as the selected option. A red arrow points to the right, where the 'Board type' field now displays 'qube_servo3_usb'.

2. Once that is done, configure the board identifier to connect to the virtual Qube-Servo 3. To do this, change the board identifier and add '@tcpip://localhost:port' at the end. If using the virtual Qube 3 – DC Motor, the port number is 18922, and 18923 if using the Qube 3 – Pendulum in Quanser interactive labs. It should look like the following picture.



The screenshot shows the 'QUBE Servo 3 USB' configuration window. The 'Board type' is set to 'qube_servo3_usb'. The 'Board identifier' field has been updated from '0' to '0@tcpip://localhost:18922'. A red box highlights the updated fields, and a red arrow points from the 'Board identifier' field to the highlighted area. The 'Board-specific options' field contains 'deadband_compensation=0.65;pwm_en=0;enc0_velocity=3.0;enc1_velocity=3.0;'. The 'Assume exclusive access to the board' checkbox is unchecked. The window includes a diagram of the QUBE Servo 3 USB hardware and buttons for 'OK', 'Cancel', 'Help', 'Apply', and 'Defaults'.