

## ***Frequently Asked Questions***

**Title:** MCH software API is very different from Px software API

**Date:** 20 Aug 2020

**Card/Board/Module:** 1553 family (M4K1553Px vs. M4K1553MCH)

**Operating System:** all

### **Question:**

I have a 1553MCH family module or card with application software. I want to move to the 1553Px family module or card.

Is the code easy to port ?

### **Answer:**

Unfortunately the answer is no.

Our software drivers need to match the architecture and registers of the respective modules. Even though both module families are for the MIL-STD-1553 communications protocol, the chip architecture of the two families is different. Therefore, the software APIs are inherently different. So much so, that it is fairly impossible (in our opinion) to port code from one module type to the other. Porting code would instead require a rewrite.

The 1553MCH family is based on a chip that we buy from another company. This module family has basically been replaced by our own M4K1553PxS module family.

The 1553Px family is our own in-house development. We have moved to our third generation of chips for this family, keeping the same basic architecture and registers, so that customers can easily replace an older card with a newer one.