

## ***Frequently Asked Questions***

**Title:** M4KSerial vs M4KSerialPlus replacement

**Date:** March 2020

**Card/Board/Module:** Serial[Plus] module family

**Operating System:** All

### **Question:**

I used to use the M4KSerial module. I need another card with a similar module. I see that this module is no longer available, and has been replaced with the M4KSerialPlus module.

Is the newer module version compatible with the older version ?

### **Answer:**

1. Pin to pin assignments are compatible.
2. The registers & memory maps are different, due to the additional (and larger) registers for the additional features of the SerialPlus module; as listed in the User's Manual.
3. The latest software covers both the Serial module (all versions) and the SerialPlus modules. It recognizes which module you have, and applies any API function call to the appropriate register.

Many functions are handled internally in two flavors: 8bit for Serial, 16bit for SerialPlus. Despite the different memory maps, the two internal implementations (8bit and 16bit) are synchronized.

4. IF you use the latest software release (for PCI or for VME/VXI), then there is no need to change your software application.

5. Here is a list of software API additions to support features only available on the SerialPlus modules:

ClearRcvCountTrigFlag\_SER  
ClearRcvPatternTrigFlag\_SER  
SetModuleTimetagResolution\_SER  
SetRcvCountTrigger\_SER  
SetRcvPatternTrigger\_SER  
SetTransmitGap\_SER