

PRiME Assembly Notes

This document contains general assembly notes for assembling the PRiME System.

PSA

The printed circuit boards are slightly shorter than the enclosure length, which can cause the board to slide slightly after full assembly. To prevent this, a small piece of double-stick tape can be placed on the edges of the boards prior to attaching the front and back plates. The tape will take up the extra space and prevent movement. Alternatively, a small amount of silicone can be placed on the board side (where the board slot is located) to prevent movement.

CSaAF

After the USB7856R OEM FPGA board is inserted into the NI-USB7856-Support board, use the 3/8" standoffs in 6 locations around the board. Use 4-40, 1/4" screws (recommend Philips pan head screw, but any other type will work) on both sides. This helps support the FPGA board after the full assembly is installed in the enclosure. Adding threadlocker or locking washers is recommended.

The Launchpad board should be programmed prior to installing the boards into the enclosure. There is a separate programming document detailing the procedure.

After the CSaAF is fully assembled, use the BNC jam nuts to secure the BNC connectors to the panel. This is necessary for strain relief on the connector.

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