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GETTING STARTED GUIDE

MXI-Express Fiber Cable

Products

- x8 MXI-Express fiber cable, 10 m (783329-10)
- x8 MXI-Express fiber cable, 30 m (783329-30)
- x8 MXI-Express fiber cable, 100 m (783329-100)

Note The model number listed above is followed by the specific National Instruments assembly number in parentheses. Ensure the specifications of interest match the NI assembly number that is printed on either the front or back side of the board.

Supported Products

- NI PXIe-8383mc (782522x-01)
- NI PXIe-8384 (782363x-01)
- NI PCIe-8381 (782522x-01)
- NI PXIe-8381 (782362x-01)[1]

Note x denotes all revisions of the assembly.

[1] PXI Express module revision B or later.

NATIONAL INSTRUMENTS

Installation and Configuration

Installation

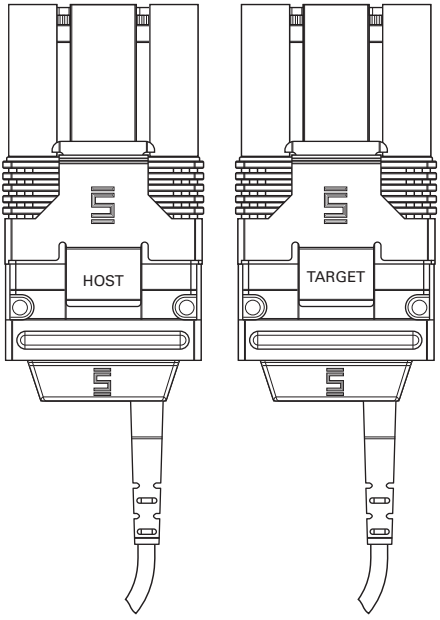
The x8 MXI-Express fiber cable is distinct from a common copper cable in that it is directional.

The fiber cable must be connected with the connector labeled **HOST** plugged into the upstream device, and the connector labeled **TARGET** plugged into the downstream device.

Upstream devices include the host adapter (NI PCIe-8381) or the daisy-chain module (NI PXIe-8384).

Downstream devices include the Slot 1 controller (NI PXIe-8381) and the NI PXImc module (NI PXIe-8383mc).

Figure 1. Cable Assembly



System Requirements

The x8 MXI-Express fiber cable requires a Constant Frequency Clock (CFC) be provided to the cable. Gen II x8 PCI Express and PXI Express remote controllers use Spread Spectrum Clocking (SSC) by default.

You must change the setting using the toggle switch on your MXI-Express Gen II x8 remote controller. Refer to Figures 2 and 3 for the location of the respective switches.

Figure 2. NI PXIe-8384 and NI PXIe-8383mc with SW5 Toggled in CFC Position

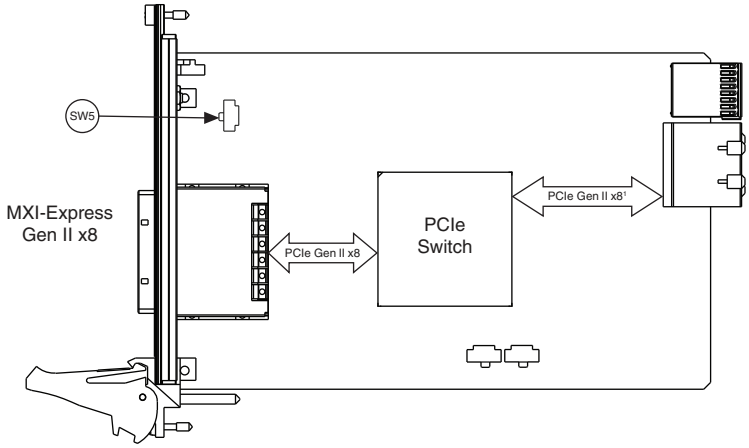
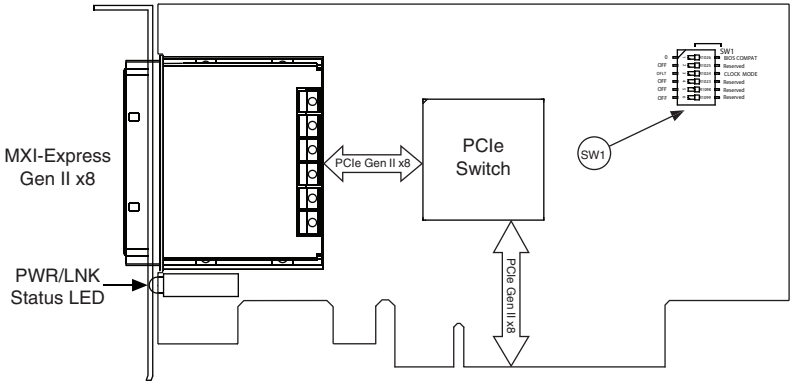


Figure 3. NI PCIe-8381 Set to CFC Mode by Toggling Position 3 of SW1 to the ON Position



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374610A-01 May14