



Configuring the NI BNC-2110 Breakout Box for use with MiDAS DA

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Abstract

This application note describes the procedure for installing jumper cables and labels on a customer-supplied BNC-2110 breakout box from National Instruments for use with MiDAS DA.

Introduction

MiDAS DA is designed to work with a wide range of interconnection hardware from National Instruments. In order to properly route synchronization and trigger signals to the appropriate BNC connectors, users must attach jumpers to the screw terminal block. After configuring and installing the BNC-2110, restart your computer. Windows should detect your new hardware and install the appropriate drivers.

Supported Model Numbers

NI BNC-2110

Jumper Cables

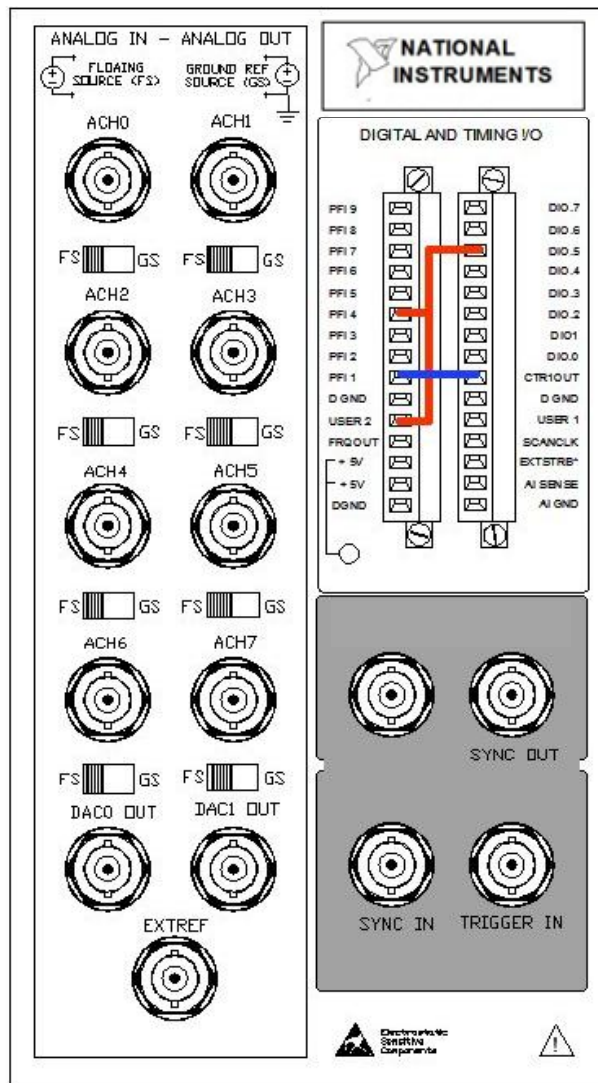
You must install three jumper cables on your breakout box as shown in Figure 1.

- The first jumper connects the **PFI 4** and **User 2** terminals.
- The second jumper connects the **PFI 4** and **PO.5** (or **DIO 5**) terminals.
- The third jumper connects the **PFI 1** and **CTR1OUT** terminals.

Labels

Label three of the module connections (located on the breakout box below the jumper cables) as shown in Figure 1.

- Label **PFI 12 / P2.4** as **Sync Out**
- Label **User 1** as **Sync In**
- Label **User 2** as **Trigger In**



Jumpers	NI	Label as
User 2 to PFI 4	PFI 12/P2.4	Sync Out
PFI 4 to PO.5/DIO 5	User 1	Sync In
PFI 1 to CTR1OUT	User 2	Trigger In

Figure 1. BNC-2110 Breakout Box with Jumpers and Labels

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