



Agilent E1403C and Agilent E1407A C-Size Active Adapter Module

Installation and User's Manual

Where to Find it - Online and Printed Information:

System installation (hardware/software)	VXIbus Configuration Guide* Agilent VIC (VXI installation software)*
Module configuration and wiring	This Manual
VXIplug&play programming	VXIplug&play Online Help
VXIplug&play example programs	VXIplug&play Online Help
VXIplug&play function reference	VXIplug&play Online Help
Soft Front Panel information	VXIplug&play Online Help
VISA language information.....	Agilent VISA User's Guide
Agilent VEE programming information.....	Agilent VEE User's Manual



**Supplied with Agilent Command Modules, Embedded Controllers, and VXLink.*



Agilent Technologies



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E1403C and E1407A C-Size Active Adaptor Installation and User's Manual



Agilent Technologies

Edition 4 Rev 3

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Documentation History

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Edition 3 December 1996
Edition 4 March 1997

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Instruction manual symbol affixed to product. Indicates that the user must refer to the manual for specific WARNING or CAUTION information to avoid personal injury or damage to the product.



Alternating current (AC)



Direct current (DC).



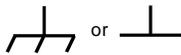
Indicates hazardous voltages.



Indicates the field wiring terminal that must be connected to earth ground before operating the equipment—protects against electrical shock in case of fault.

WARNING

Calls attention to a procedure, practice, or condition that could cause bodily injury or death.



Frame or chassis ground terminal—typically connects to the equipment's metal frame.

CAUTION

Calls attention to a procedure, practice, or condition that could possibly cause damage to equipment or permanent loss of data.

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Introduction

The manual is separated into the following chapters.

Chapter 1 - General Information. Describes the different adapters.

Chapter 2 - Installation/Removal Instructions. This chapter shows how to install/remove B-Size VXIbus modules into/from the Agilent E1403C or Agilent E1407A C-Size Adapter Module, and how to install/remove the adapter module into a C-Size VXIbus Mainframe.

Chapter 3 - Using the Adapters. This chapter shows how to use the adapter modules. It includes a block diagram for both the Agilent E1403C and Agilent E1407A Adapter Modules. The chapter also includes, for the Agilent E1407A Adapter Module, instructions on how to use and install the J2 Connector Cable, how to select the direction (to or from the mainframe's backplane) of the trigger signals on the ECL and TTL trigger lines, and how to select unbuffered or buffered SUMBUS connections. Connector pinout diagrams for both the Agilent E1403C and E1407A are also provided.

Appendix A - Specifications. This appendix details specifications for the Agilent E1403C and Agilent E1407A C-Size Adapter Module.

C-Size Adapter Description

The Agilent E1403C and Agilent E1407A Adapter Modules allow an A- or B-Size VMEbus/VXIbus module to connect to a C-Size VXIbus Mainframe. The regular adapters connect a single slot VMEbus/VXIbus module to the mainframe. Option 10 connects two-slot modules to the mainframe (however, it only connects the module to the P1 and/or P2 connector of only one slot). The following gives the features of the adapters.

Agilent E1403C Adapter Description

Use this adapter to make buffered connections between an A-size or B-size module's J1 connector and the mainframe's P1 connector. The adapter has the following features:

- Mounts with the VMEbus/VXIbus module's front panel flush with the front of the adapter.
- Provides direct access to the VMEbus/VXIbus module's front panel I/O connections.
- Provides connections to the J1 connector with pin-to-pin compatibility to the mainframe's P1 connector.

- Meets VMEbus driving and loading specifications.
- Provides proper timing for data Transfer Acknowledgment (DTACK) and Interrupt Signals (IRQ).
- Provides connectivity for Agilent B-size modules or any P1-only VXIbus slave module (Bus Master signals are not provided. These include: BBSY*, BLCR*, BR0*, BR1*, BR2*, BR3*, SERCLK, SERDAT.)

Agilent E1407A Adapter Description

Use this adapter to make buffered connections between an A-size or B-size module's J1 connector and the mainframe's P1 connector, and buffered connections between a B-size module's J2 connector and the mainframe's P2 connector. The adapter has the following features:

- Mounts with the VMEbus/VXIbus module's front panel flush with the front of the adapter.
- Provides direct access to the VMEbus/VXIbus module's front panel I/O connections.
- Provides connections to the J1 connector with pin-to-pin compatibility to the mainframe's P1 connector.
- Provides direct connections to the J2 connector with pin-to-pin compatibility to the mainframe's P2 connector.
- Provides buffered data, address, and trigger lines (either ECL or TTL).
- Provides direct SUMBUS connections, or provides fused ± 12 V power supply connections to add user provided circuitry (op-amps, for example) for buffered SUMBUS connections (jumper selectable).
- Provides access to the pins on the outer rows of the J2 connector for VME modules. These pins may be isolated from the backplane.
- Meets VMEbus driving and loading specifications.
- Provides proper timing for data Transfer Acknowledgment (DTACK) and Interrupt Signals (IRQ).
- Provides connectivity for Agilent B-size modules or any P1-only VXIbus slave module (Bus Master signals are not provided. These include: BBSY*, BLCR*, BR0*, BR1*, BR2*, BR3*, SERCLK, SERDAT.)

Chapter 2

Installation/Removal Instructions

This chapter shows how to install/remove B-size VXIbus modules into/from the Agilent E1403C or Agilent E1407A C-Size Adapter Module, and how to install/remove the adapter module into a C-Size VXIbus Mainframe.

Note The procedures in this chapter shows installation/removal of the Adapter Module into/from the Agilent E1401A High Power Mainframe. The procedures for other mainframes are similar to these procedures.

Preparing for Installation

- Be sure to set the logical address of the module to be installed into the adapter to the correct address (see the module manual).
- Be sure to use clean handling and anti-static handling of the module.
- Be sure there are no external connections to the modules.

Installing A-Size VMEbus Modules (Agilent E1403C Only)

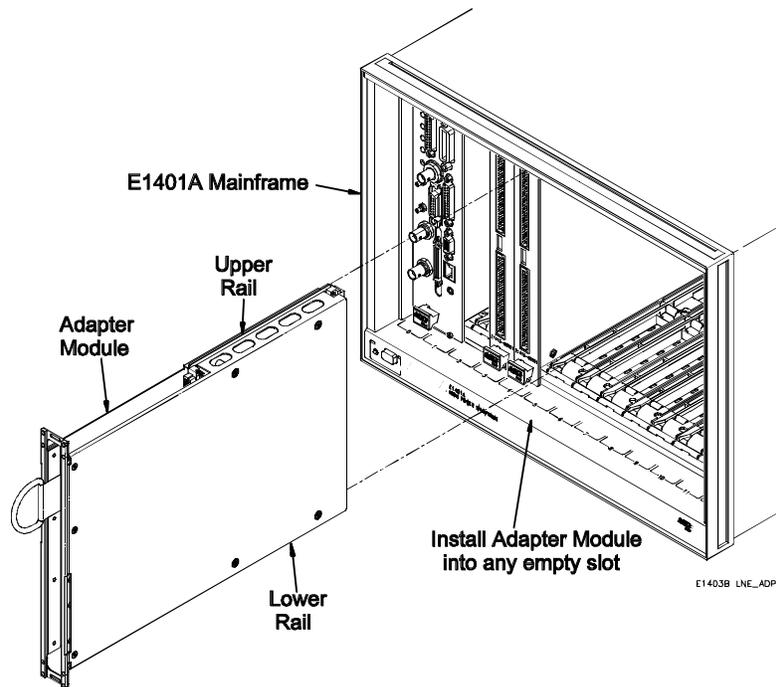
Install A-Size VMEbus Modules only in the Agilent E1403C Adapter Module. Use the following B-Size Module installation procedure to install an A-Size Module into the adapter module.

Installing an Adapter Module with a B-Size VXIbus Module

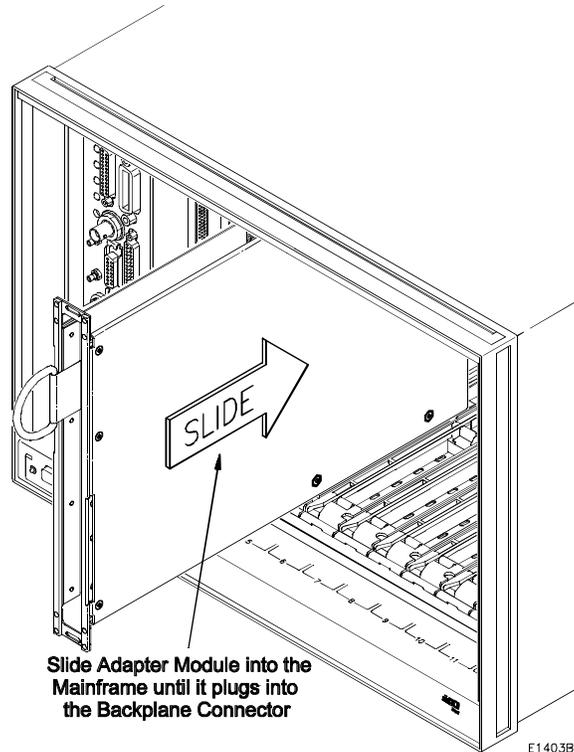
The procedure starting on the next page shows how to install an Agilent E1403C or Agilent E1407A C-Size Adapter Module into an Agilent E1401A Mainframe. (The installation procedures for other mainframes is similar.) The procedure then shows how to install a B-Size VXIbus Module into the adapter module.

Note During power-up, the resource manager recognizes a module in the slot with the Agilent E1403C or Agilent E1407A Adapter Module installed with or without a B-Size module installed in the adapter module. Thus, to prevent any error generation, be sure a B-Size module is installed in the adapter module before power-up.

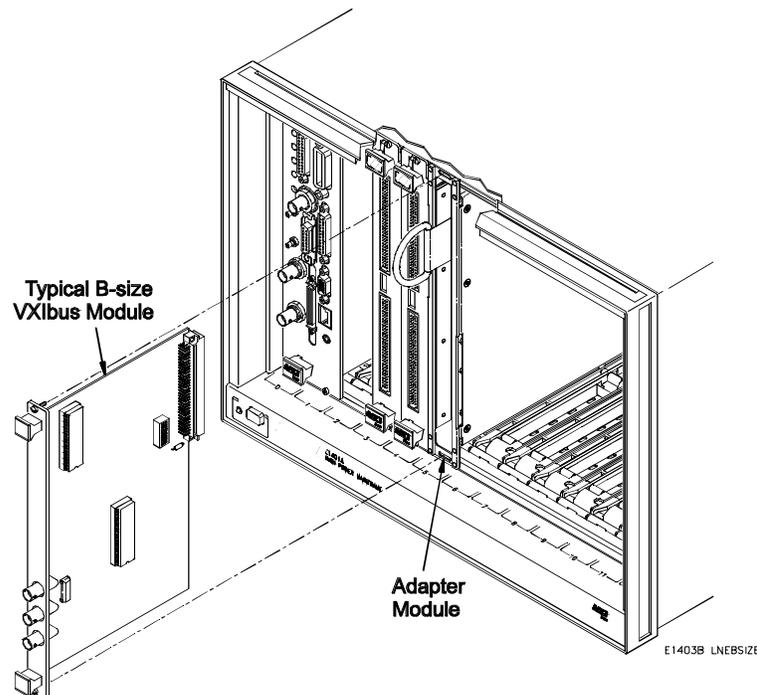
1 Line up the C-Size Adapter Module's Rails with the Module Guides of an Empty Slot in the Mainframe.



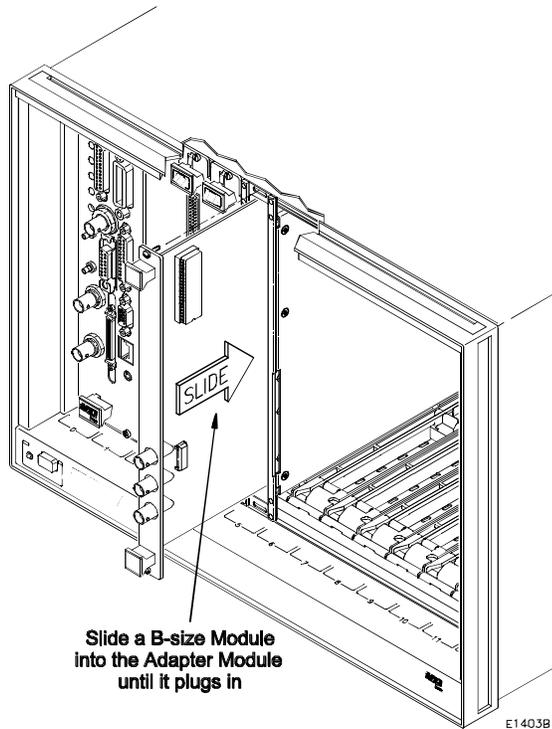
2 Slide the C-Size Adapter Module into the Mainframe.



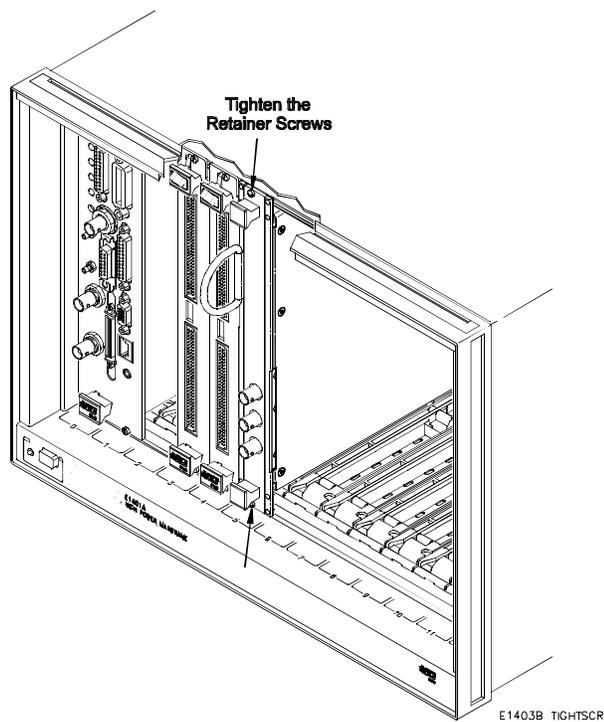
3 Line up the B-Size Module with the C-Size Adapter Module's Front Slot and the Mainframe's Module Guides.



4 Slide the B-Size Module into the C-Size Adapter Module.



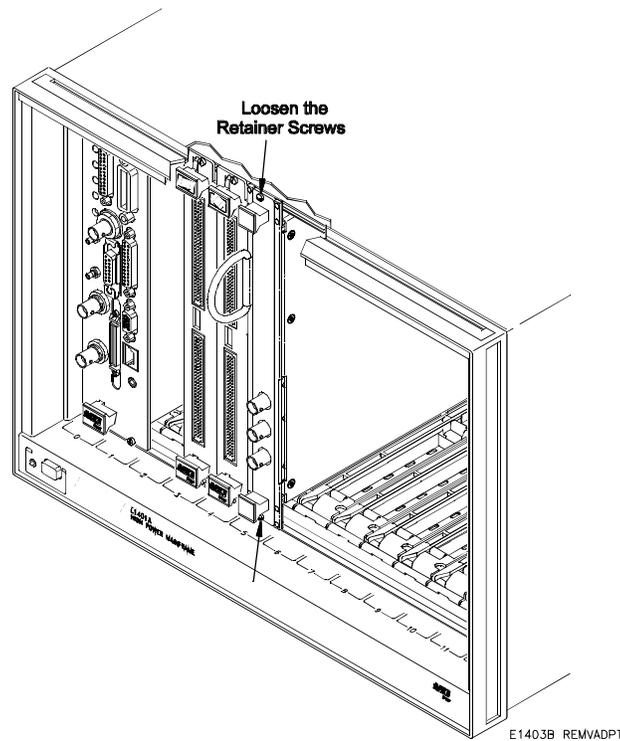
5 Tighten the B-Size Module's Upper and Lower Retainer Screws.



Removing the Adapter Module and B-Size Module

The following procedure shows how to remove a B-Size VXIbus Module from an Agilent E1403C or Agilent E1407A C-Size Adapter Module and the adapter module from the mainframe.

- 1 Loosen the Upper and Lower Retainer Screws of the B-Size Module inside the C-Size Adapter Module.**

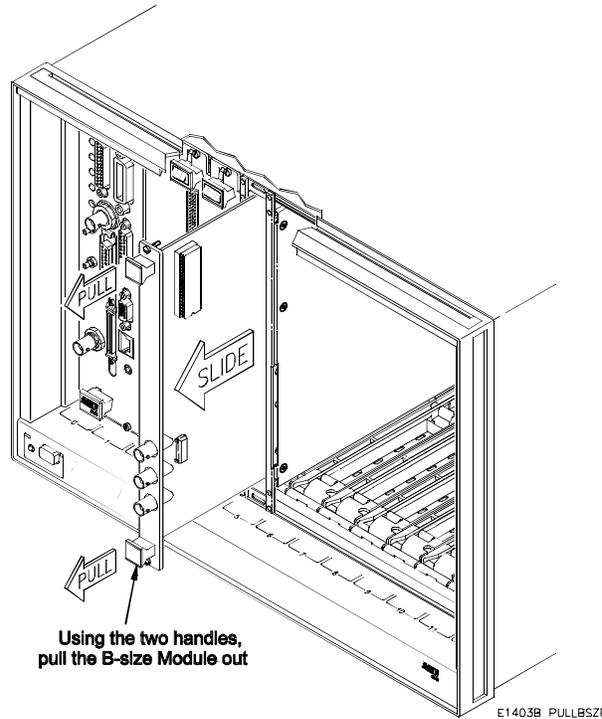


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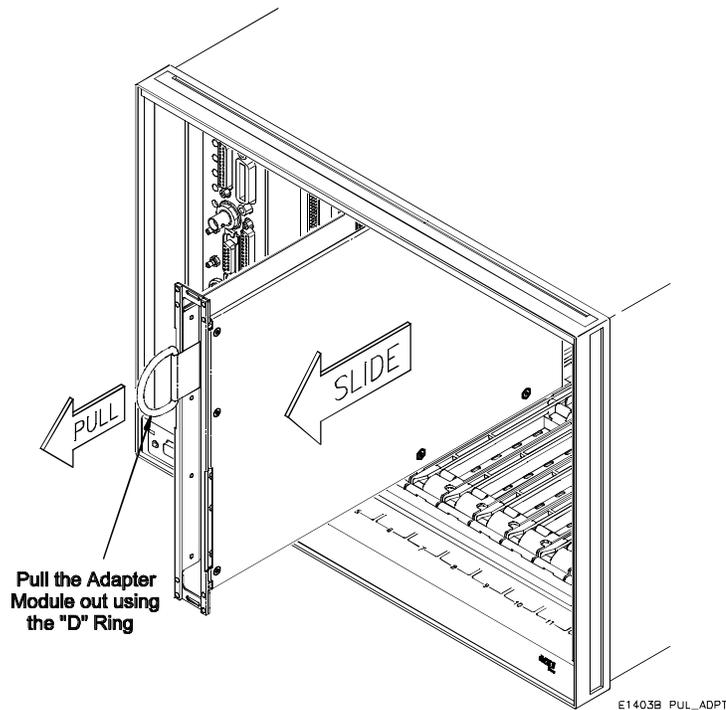
2 Using the handles on the B-Size Module, pull the Module out of the C-Size Adapter Module.

NOTE:

When removing the B-size Module from the Adapter Module, the Adapter Module may be pulled out of the mainframe. If that happens, carefully pull the B-size Module out of the Adapter Module, without damaging any exposed components on the B-size Module.



3 Using the "D" Ring, pull the C-Size Adapter Module out of the Mainframe.



Chapter 3

Using the Adapters

This chapter shows how to use the adapter modules. It includes a block diagram for both the Agilent E1403C and Agilent E1407A Adapter Modules as well as connector pinouts. This chapter also includes, for the Agilent E1407A Adapter Module, instructions on how to use and install the J2 connector cable, how to select the direction (to or from the mainframe's backplane) of the trigger signals on the ECL and TTL trigger lines, and how to select unbuffered or buffered SUMBUS connections.

Agilent E1403C Block Diagram

Figure 3-1 shows the block diagram for the Agilent E1403C C-Size Adapter Module.

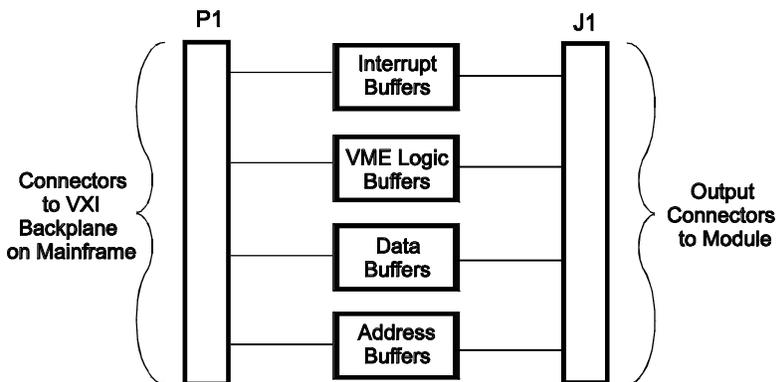


Figure 3-1. Agilent E1403C Block Diagram

Agilent E1403C Connector Pinout

Figure 3-2 shows the P1 and J1 connector's pinout for the Agilent E1403C Adapter Module.

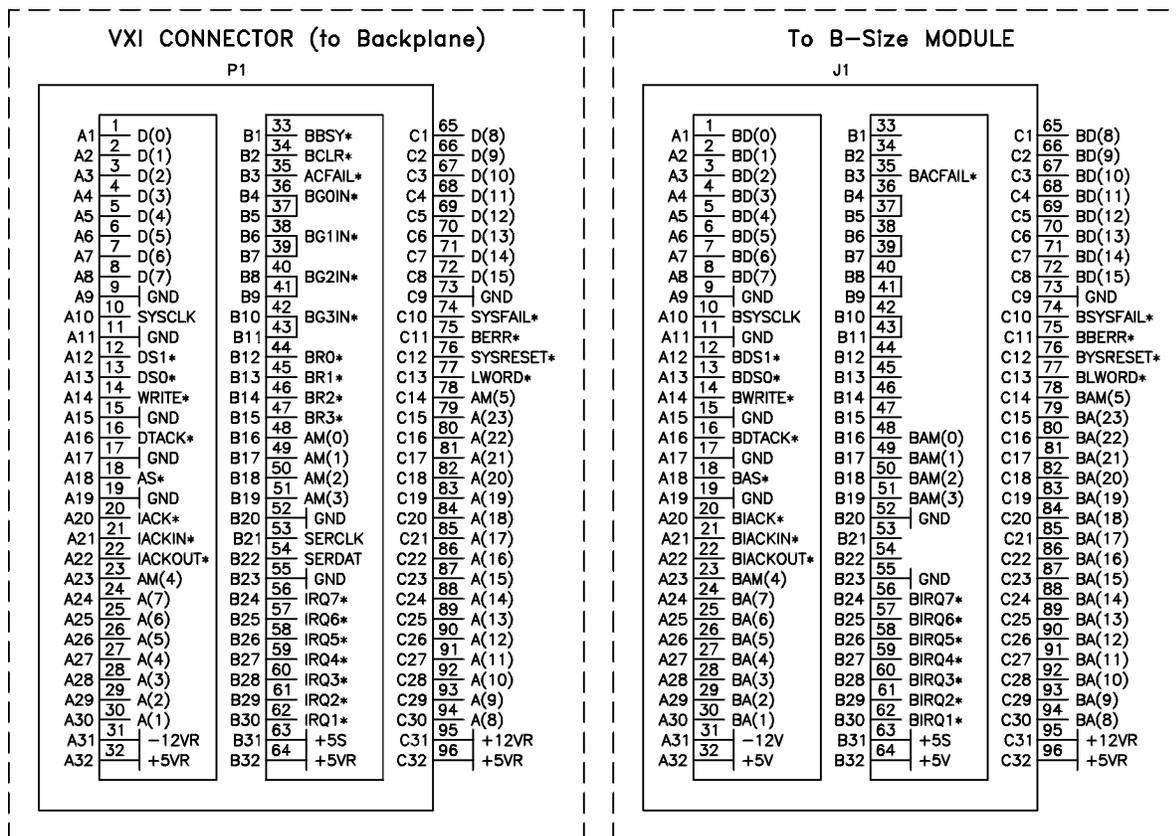


Figure 3-2. Agilent E1403C P1 and J1 Connector Pinout

Agilent E1407A Block Diagram

Figure 3-3 shows the block diagram for the Agilent E1407A C-Size Adapter Module.

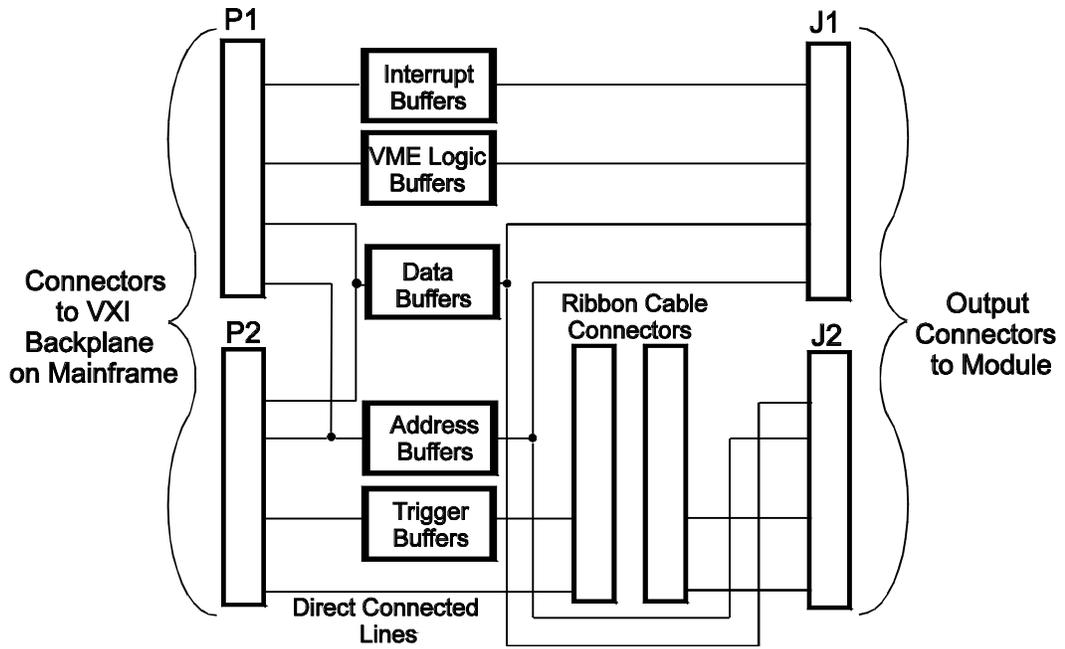


Figure 3-3. Agilent E1407A Block Diagram

Agilent E1407A Connector Pinout

Figure 3-4 shows the P1 and J1 connector's pinout, and Figure 3-5 shows the P2 and J2 connector's pinout for the Agilent E1407A Adapter Module.

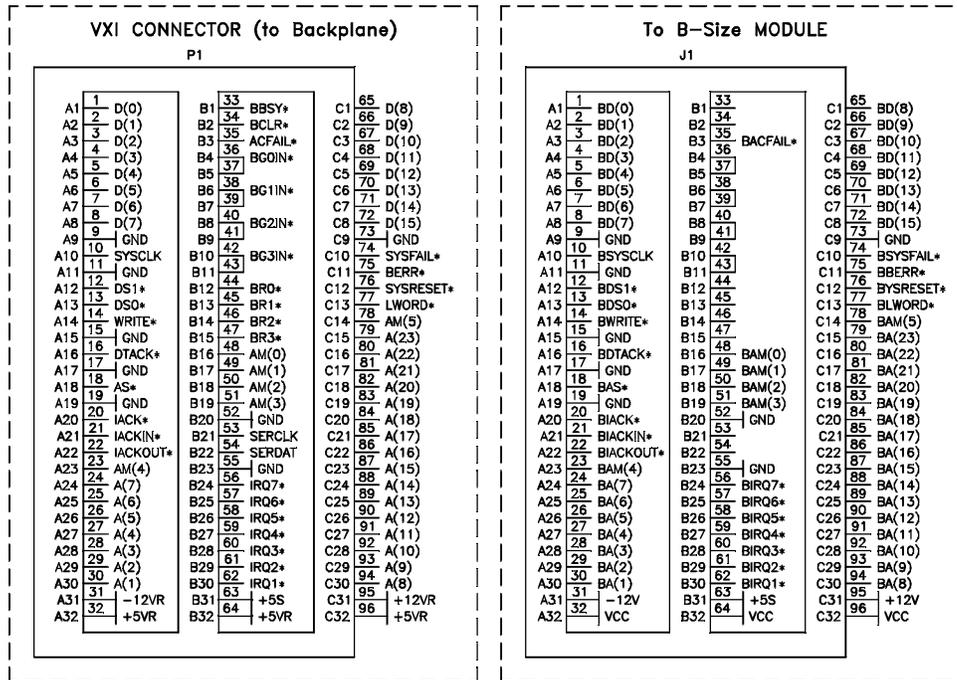


Figure 3-4. Agilent E1407A P1 and J1 Connector Pinout

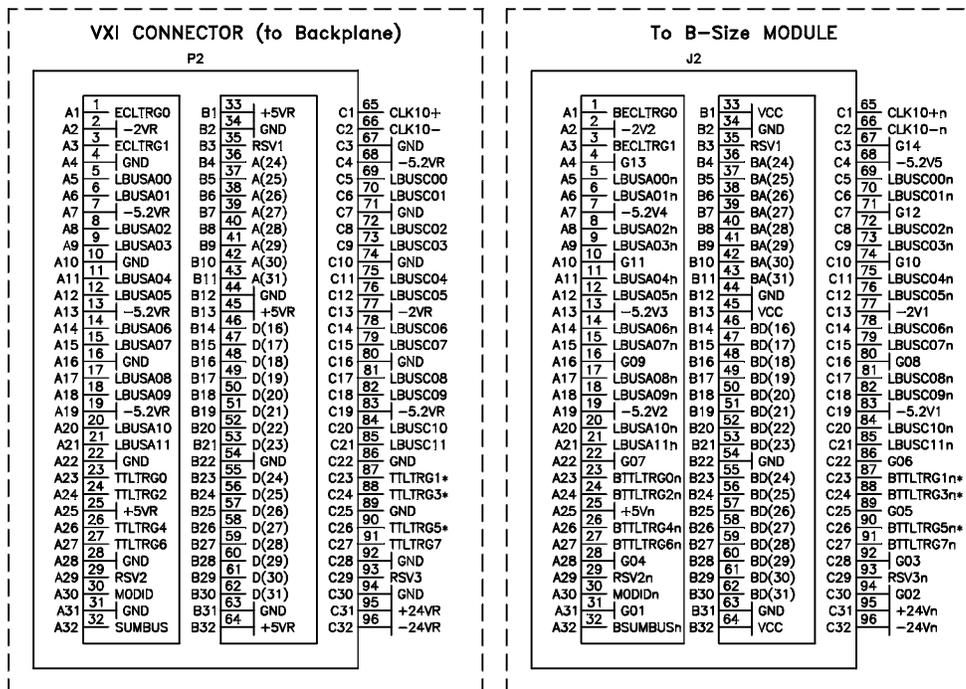


Figure 3-5. Agilent E1407A P2 and J2 Connector Pinout

Installing the J2 Connector Cable (Agilent E1407A Only)

Purpose of the J2 Cable

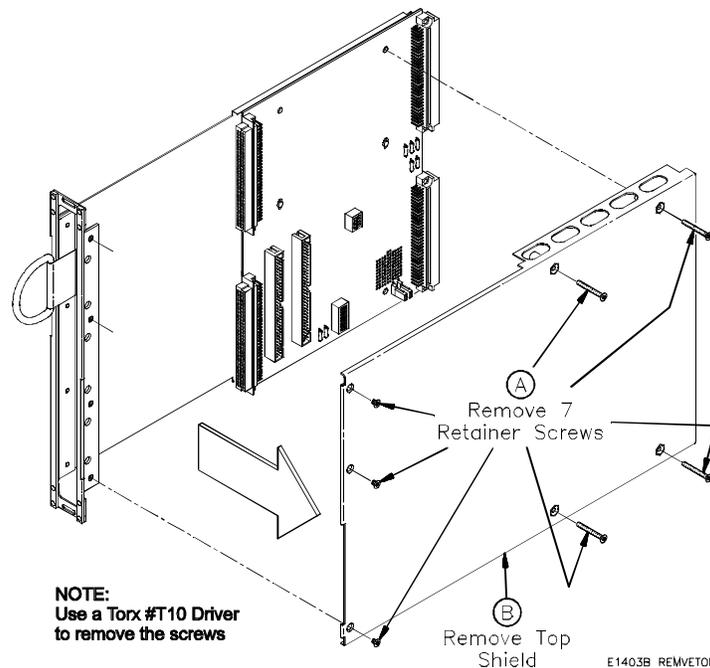
The Agilent E1407A C-Size Adapter Module is shipped with a long and short J2 Connector Cables. The long J2 cable allows for direct access to the outer rows of the J2 connector of the B-Size module (that is, VMEbus modules that utilize the outer rows of J2) inside the adapter module. The short J2 cable makes internal connections between the P2 and J2 connectors of the adapter module to allow for connections between the J2 connector of the B-Size module inside the adapter module and the P2 connector of the mainframe. Use this for VXIbus modules that utilize the outer rows of J2. If your module has no outer row connections of J2, do not install either cable.

See Figure 3-6 for the J2 connector's pinout diagram.

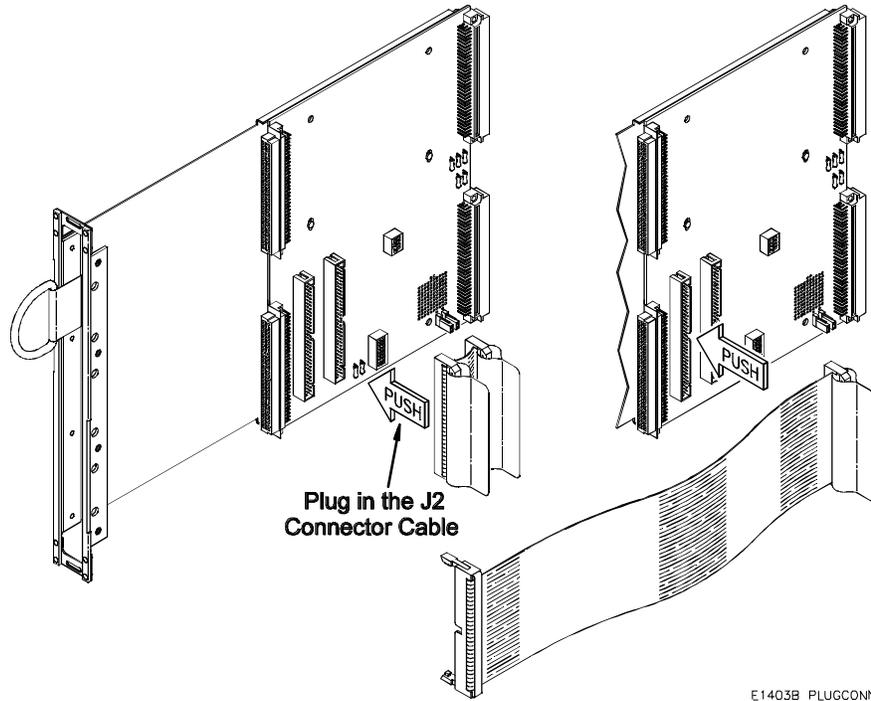
Caution Damage to a VMEbus module, adapter module, mainframe, or all three may result if using the short cable in an adapter module with a VMEbus module.

Install the J2 Cable Do the following to install either J2 Cable:

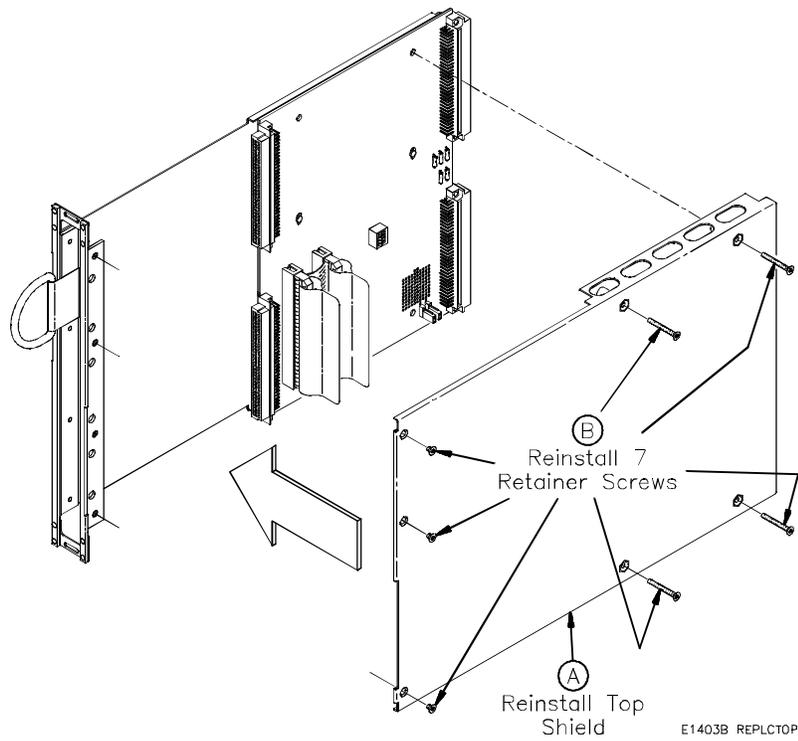
- 1 On the C-Size VXIbus Adapter Module, remove the 7 Top Shield Retainer Screws and Top Shield.**



2 Plug in either the Short or Long Ribbon (J2) Cable.



3 Reinstall the Top Shield and Retainer Screws on the C-Size Adapter Module.



Ribbon Cable (J2) Connector Pinout

Figure 3-6 shows the pinout for the Agilent E1407A ribbon cable connectors (J2).

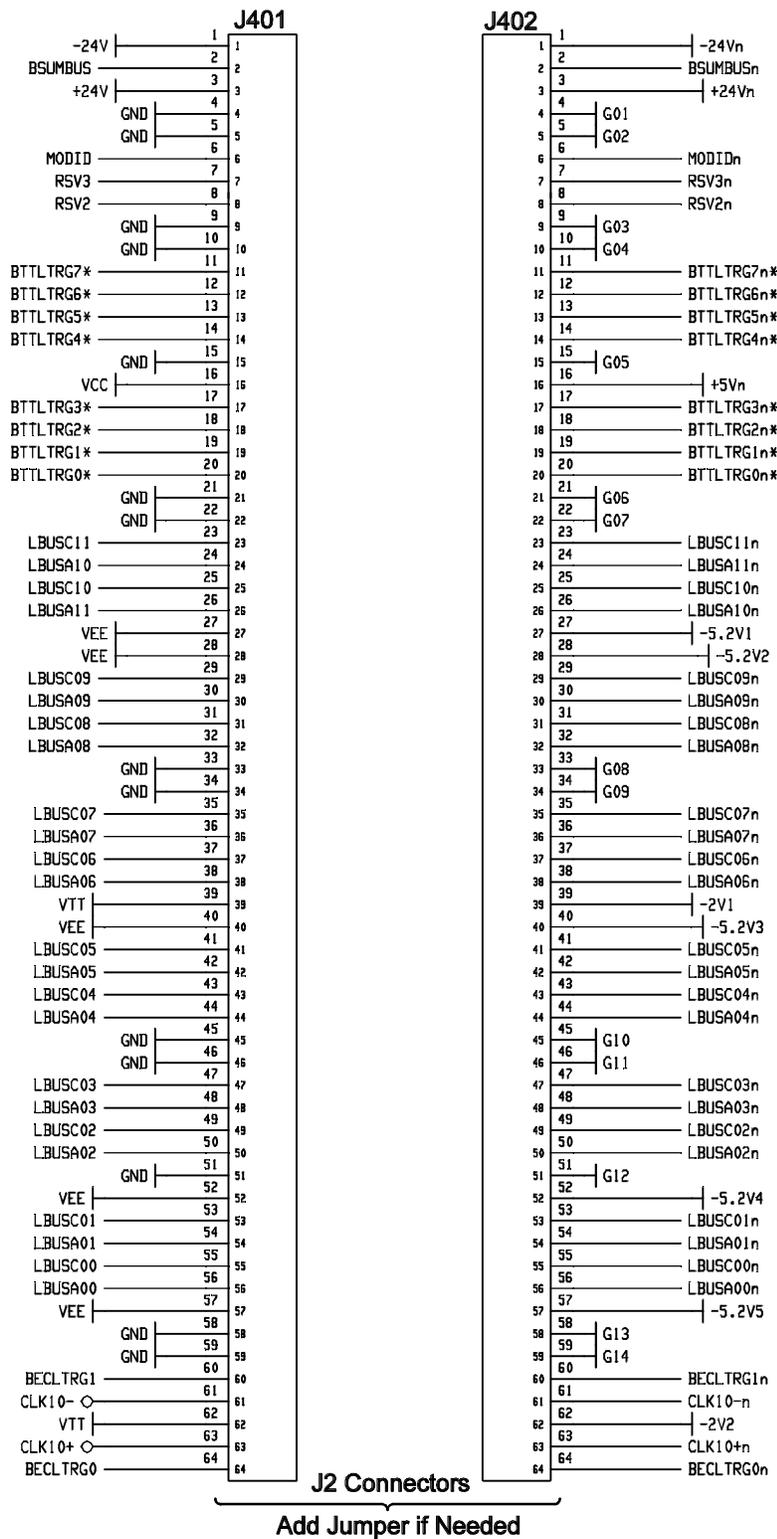
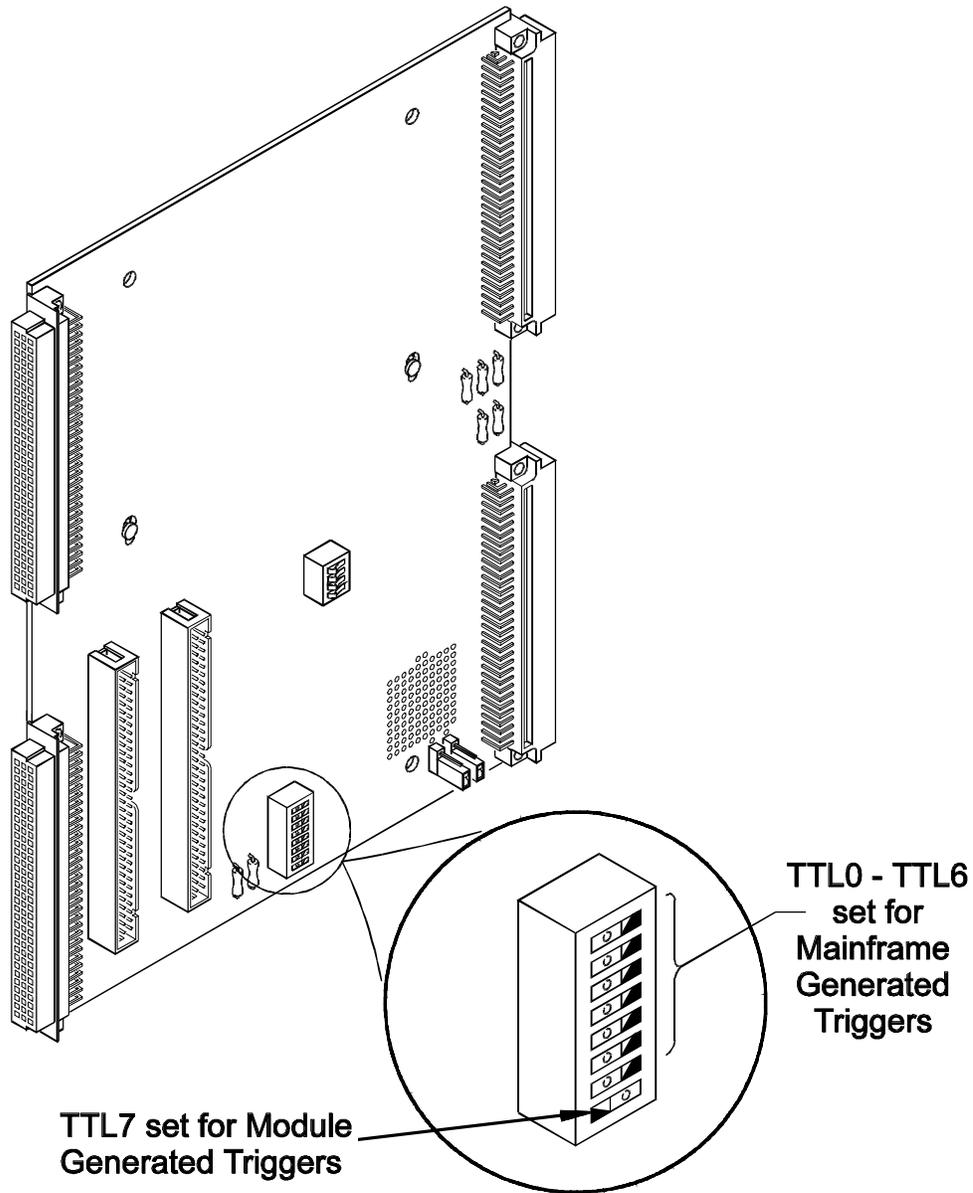


Figure 3-6. Agilent E1407A Ribbon Cable Connectors (J2)

Selecting the TTL Trigger Direction (Agilent E1407A Only)

The Agilent E1407A C-Size Adapter Module has a switch that allows you to set the trigger signal direction of the TTL0–TTL7 Trigger Lines. Figure 3-7 shows that the TTL7 Trigger Signal comes from the B-Size Module, and TTL0–TTL6 from the Mainframe's VXI Backplane. Use the illustration as a guide to set the appropriate trigger directions for your application.

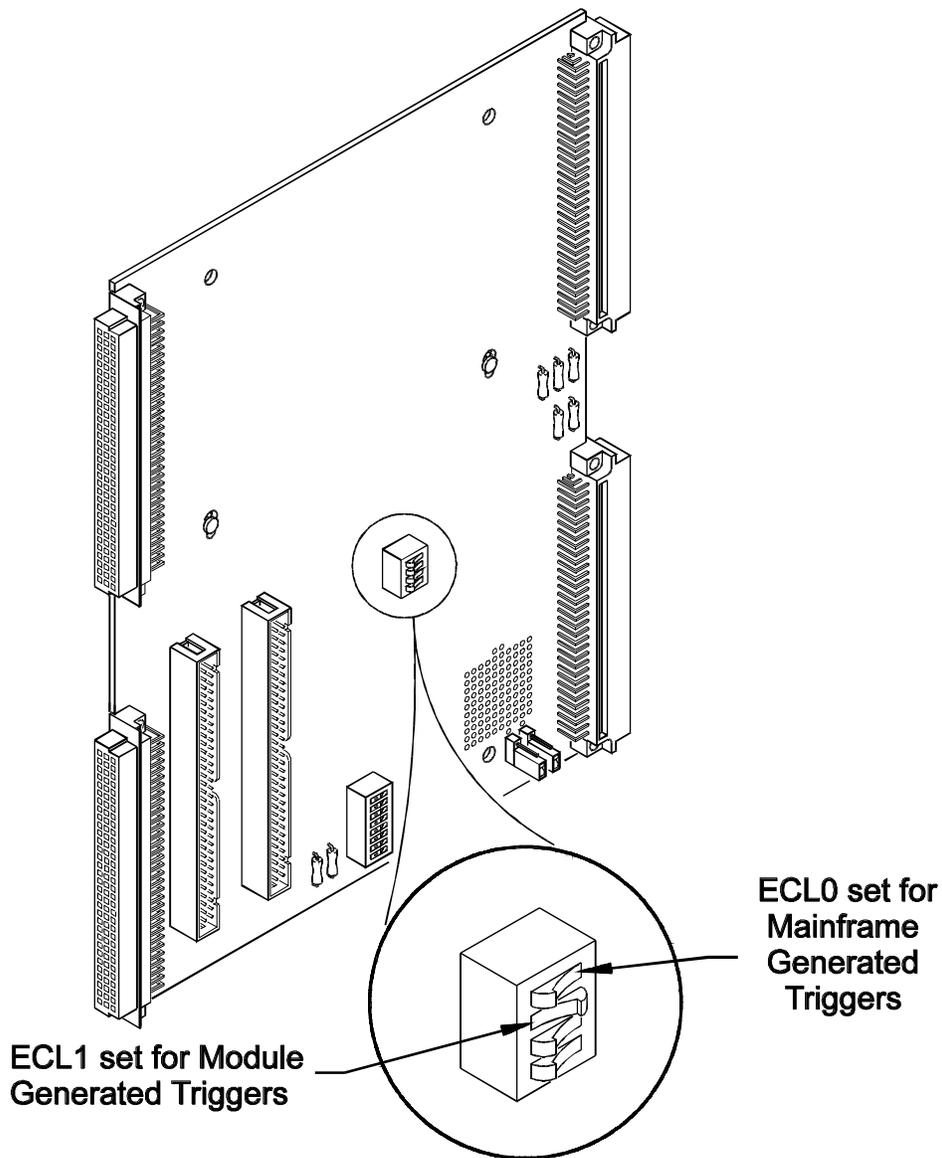


E1403B 1407_SW8

Figure 3-7. Selecting the TTL Trigger Signal Direction

Selecting the ECL Trigger Direction (Agilent E1407A Only)

The Agilent E1407A C-Size Adapter Module has a switch that allows you to set the trigger signal direction of the ECL0 and ECL1 Trigger Lines. Figure 3-8 shows that the ECL1 Trigger Signal comes from the B-Size Module, and ECL0 from the Mainframe's VXI Backplane. Use the illustration as a guide to set the appropriate trigger directions for your application.



E1403B 1407_SW

Figure 3-8. Selecting the ECL Trigger Signal Direction

SUMBUS Configurations (Agilent E1407A Only)

Disconnecting the SUMBUS

The ribbon cable and a pair of jumpers connect the SUMBUS to the output connectors (i.e., to the B-Size Module). Use Figure 3-9 to disconnect (i.e., remove the jumpers) or connect the SUMBUS.

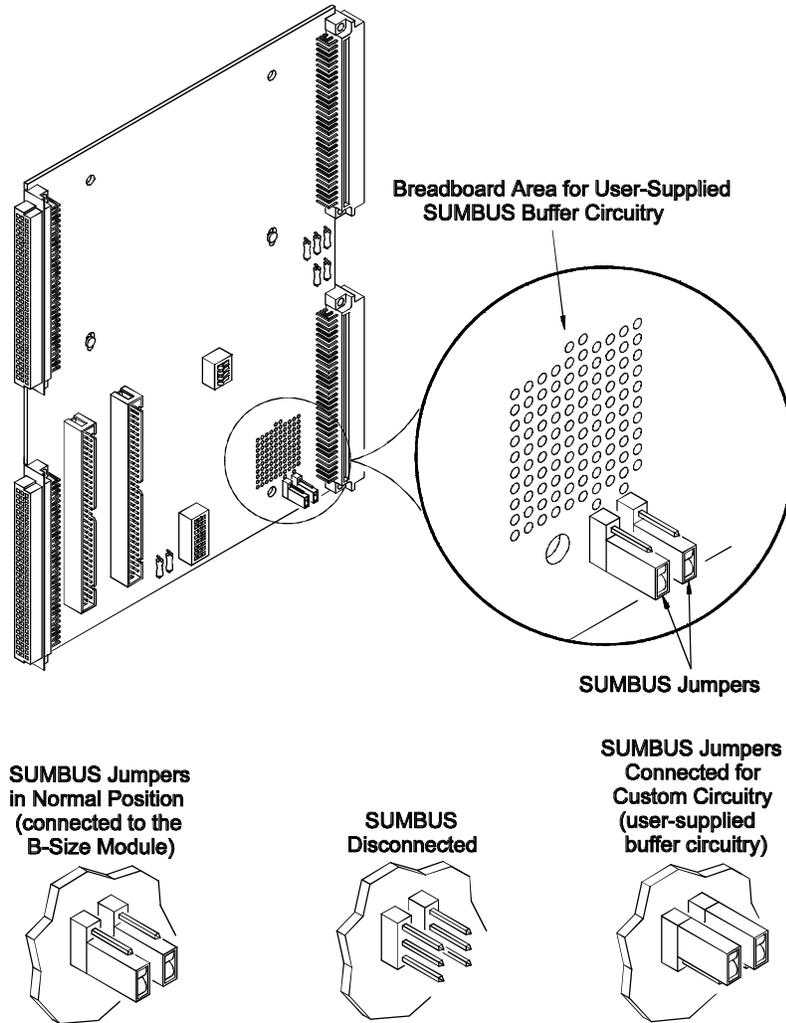


Figure 3-9. SUMBUS Jumper Configurations

Adding Buffer Circuitry to the SUMBUS

The adapter module has no circuitry available to buffer the SUMBUS. However, there is a breadboard area on the PC board in the Agilent E1407A Adapter that allows you to add your own circuitry (e.g., op-amps) to provide buffering for the SUMBUS. The breadboard area also includes connections to the $\pm 12V$ Power Supplies.

You can add buffer circuitry either for SUMBUS signals coming from the B-Size Module in the Adapter Module or from the Mainframe's VXI Backplane. Use Figure 3-9 to select the appropriate jumpers for your application, and to locate the breadboard area.

Appendix A

Agilent E1403C and E1407A Specifications

Product Characteristics

- P1 and P2 extension fully buffered (P1 only on Agilent E1403C).
- Slave-only capability; cannot be used in Slot 0 with bus masters.
- Unlimited number of adapters per mainframe.
- 1-slot wide.
- Option 10 is 2-slot wide. Only the P1 and/or P2 connectors of a single slot are used.
- Replacement fuses are subminiature 4A, 125V (Littelfuse is recommended).

Power Requirements

<u>Voltage:</u>	<u>+5V</u>	<u>+12V*</u>
Peak Module Current (A):	0.10	0.07
Dynamic Module Current (A):	0.01	0.01

* Agilent E1407A Only

Cooling Requirements

0.02 mm H₂O @0.10 Liter/sec Air Flow for 10° C rise.

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