INSTALLATION GUIDE

FBUS-HSE/H1 LD

Fieldbus Network Module Linking Device

This document provides a quick guide to install and configure the FBUS-HSE/H1 LD network module. For more detailed information on using the network module, refer to the *FBUS-HSE/H1 Linking Device (LD) User Manual*.

Features

- Foundation Fieldbus H1 interface to control network
- High Speed Ethernet interface
- Runs on 11 to 30 VDC power
- 0 to +55 °C operation

Kit Contents and Optional Equipment

Your kit contains the following items:

- FBUS-HSE/H1 LD network module
- Accessories—This installation guide and your software CD

You can order the following optional equipment from National Instruments:

- Panel mount accessory, part number 777609-01
- Cables
- 24 VDC power supply

Installation

Complete the following steps to install the FBUS-HSE/H1 LD.

1. Use a flat-bladed screwdriver to open the DIN rail clip to the unlocked position, as shown in Figure 1.

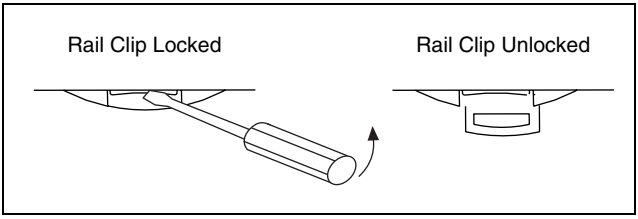
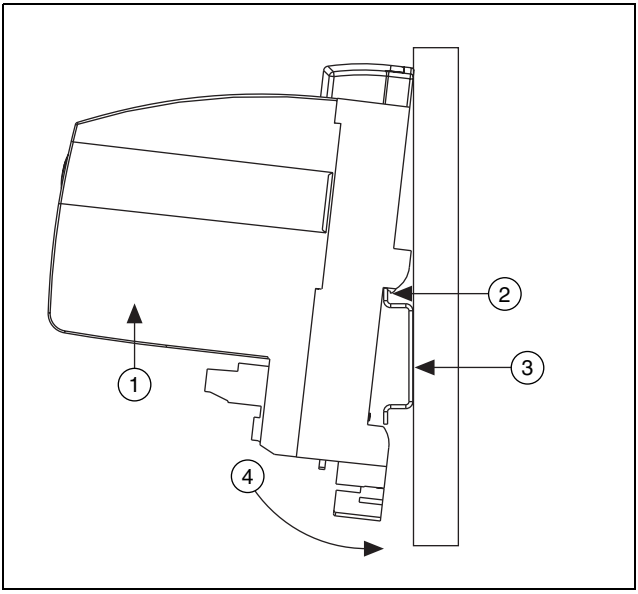


Figure 1. DIN Rail Clip

2. Mount the FBUS-HSE/H1 LD onto a 35 mm DIN rail or onto a panel mount accessory.

   Installing onto a DIN rail:

   a. Hook the lip on the rear of the FBUS-HSE/H1 LD onto the top of a 35 mm DIN rail and press the FBUS-HSE/H1 LD down onto the DIN rail, as shown in Figure 2.



1	Cover	3	35 mm DIN Rail
2	Lip	4	Press onto Rail

Figure 2. Mounting the FBUS-HSE/H1 LD onto a DIN Rail

b. Slide the FBUS-HSE/H1 LD to the desired position along the DIN rail.

c. Lock the rail clip.

Installing onto a panel mount accessory, which you can order separately from National Instruments:

a. Snap the panel mount accessory onto the module as shown in Figure 3.

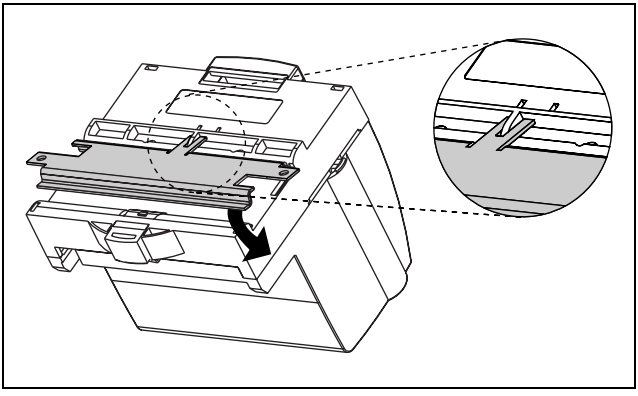


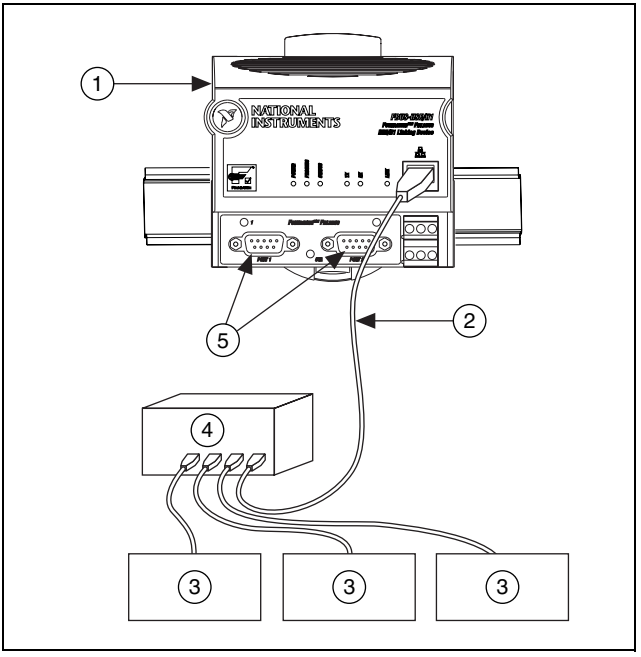
Figure 3. Mounting the FBUS-HSE/H1 LD onto a Panel Mount Accessory

b. Lock the rail clip.

c. Mount the FBUS-HSE/H1 LD and panel mount accessory onto the desired surface. You can drill pilot holes using the directions in the *FieldPoint Network Module Panel Mount Accessory Installation Guide*.

Ethernet Network Connection

Connect the FBUS-HSE/H1 LD to a High Speed Ethernet network using a standard Category 5 Ethernet cable to the RJ-45 connector on the FBUS-HSE/H1 LD. The connection of Ethernet network is shown in Figure 4.



1	FBUS-HSE/H1 LD	3	Ethernet Devices	5	H1 Network Ports
2	Ethernet Cable	4	Ethernet Hub		

Figure 4. Ethernet Network Connection

System Requirements

A DHCP server in the network is required for the FBUS-HSE/H1 LD to obtain its IP address and start up.

Fieldbus Network Connection

Connect the FBUS-HSE/H1 LD to a Fieldbus H1 network using the 9-position DSub connector on the FBUS-HSE/H1 LD. The pinout of the DSub connector is shown in Figure 5.

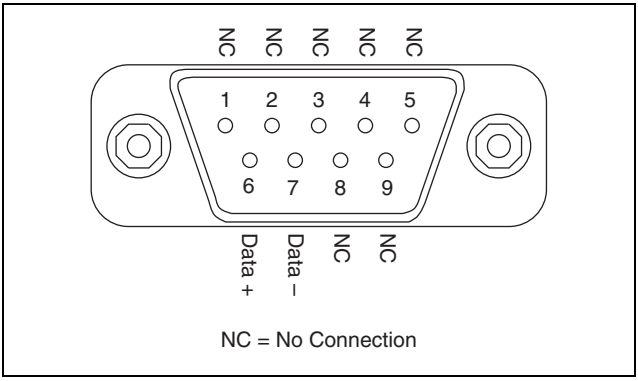


Figure 5. DSub Connector Pinout

Powering the FBUS-HSE/H1 LD

An 11–30 VDC power supply is required by each FBUS-HSE/H1 LD on your network.

The power connector is a 6-pin screw terminal connector whose pinout is shown in Figure 6.

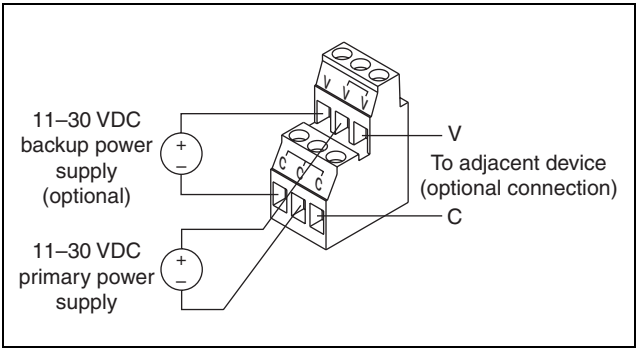


Figure 6. FBUS-HSE/H1 LD Power Connector Pinout

Connect the primary power supply to the center V and C pair. You can connect an optional backup power supply to the left V and C pair.

Mechanical Dimensions

Figure 7 shows the mechanical dimensions of the FBUS-HSE/H1 LD. Dimensions are given in millimeters [inches].

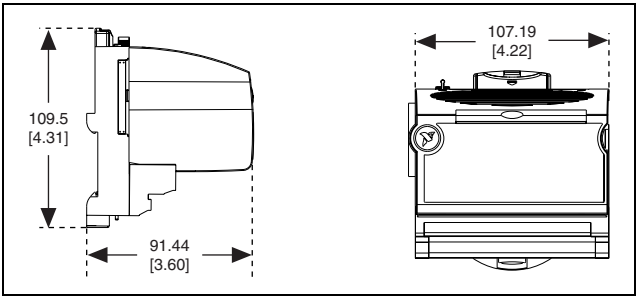


Figure 7. Mechanical Dimensions

Technical Support Resources

NI Web Support

National Instruments Web support is your first stop for help in solving installation, configuration, and application problems and questions. Online problem-solving and diagnostic resources include frequently asked questions, knowledge bases, product-specific troubleshooting wizards, manuals, drivers, software updates, and more. Web support is available through the Technical Support section of `ni.com`.

Worldwide Support

National Instruments has offices located around the world to help address your support needs. You can access our branch office Web sites from the Worldwide Offices section of `ni.com`. Branch office Web sites provide up-to-date contact information, support phone numbers, email addresses, and current events.

If you have searched the technical support resources on our Web site and still cannot find the answers you need, contact your local office or National Instruments corporate. For telephone support in the United States, dial 512 795 8248. For telephone support outside the United States, contact your local branch office:

Australia 1800 300 800, Austria 43 0 662 45 79 90 0, Belgium 32 0 2 757 00 20, Brazil 55 11 3262 3599,

Canada (Calgary) 403 274 9391,
Canada (Montreal) 514 288 5722,
Canada (Ottawa) 613 233 5949, Canada (Québec) 514 694 8521,
Canada (Toronto) 905 785 0085,
Canada (Vancouver) 514 685 7530, China 86 21 6555 7838,
Czech Republic 420 2 2423 5774, Denmark 45 45 76 26 00,
Finland 385 0 9 725 725 11, France 33 0 1 48 14 24 24,
Germany 49 0 89 741 31 30, Greece 30 2 10 42 96 427,
India 91 80 51190000, Israel 972 0 3 6393737,
Italy 39 02 413091, Japan 81 3 5472 2970,
Korea 82 02 3451 3400, Malaysia 603 9131 0918,
Mexico 001 800 010 0793, Netherlands 31 0 348 433 466,
New Zealand 1800 300 800, Norway 47 0 66 90 76 60,
Poland 48 0 22 3390 150, Portugal 351 210 311 210,
Russia 7 095 238 7139, Singapore 65 6226 5886,
Slovenia 386 3 425 4200, South Africa 27 0 11 805 8197,
Spain 34 91 640 0085, Sweden 46 0 8 587 895 00,
Switzerland 41 56 200 51 51, Taiwan 886 2 2528 7227,
Thailand 662 992 7519, United Kingdom 44 0 1635 523545

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