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VMIVME-7454

VMEbus Floppy/Hard Disk Module

Installation Manual

VMIC

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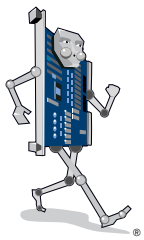
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INSTALLATION OF THE VMIVME-7454 VMEbus FLOPPY/HARD DISK MODULE

The VMIVME-7454, VMEbus Floppy / Hard Disk Module is designed to be used in conjunction with the VMIC suite of Pentium® processor-based VMEbus CPU products, including the VMIVME-7587, VMIVME-7588, and the VMIVME-7686. These CPU products include a SCSI 2 I/O port for hard drive cable connection.

This installation guide describes the direct cable connection of the module with the VMIVME-7588 and VMIVME-7688, and the cable-to-adaptor connection with the VMIVME-7587.

The VMIVME-7454 is available with four different cable configurations: wide, narrow, single, or multi-drop. A wide cable configuration supports a 68-pin SCSI connector. The narrow cable is used with the 50-pin SCSI connector. The single drop cable configuration connects two devices, but includes a piggybacked connector which allows another cable to daisy chain or plug into the back. The multi-drop cable attaches to up to five devices.

Contents

Two separate procedures are outlined in this installation manual, these include:

1. Connecting the VMIVME-7454 to a VMIVME-7588 or VMIVME-7686.
2. Connecting the VMIVME-7454 to a VMIVME-7587.

WARNING

Do not power-up the VMIVME-7454 without it being connected to the CPU Board in one of the hardware configurations shown on the following pages.

Powering up an unconnected module causes the loss of any software configuration on the VMIVME-7454 hard disk.

Procedure 1.0 Connect the VMIVME-7454 to a VMIVME-7588 or VMIVME-7686

Note

When removing the CPU board and the VMIVME-7454, first eject the VMIVME-7454, then eject the CPU board and slide both boards out simultaneously.

1. Slide the VMIVME-7454 board into the VMEbus chassis card guide.
2. Select the proper SCSI ID for the hard disk (see Table 1 and Figure 1). Determine the correct setting from the table and adjust the setting on the VMIVME-7454.
3. Place the CPU board, component side up, on a flat surface.
4. Connect the Floppy Drive Cable (360-000106-003) by connecting the 34-pin female connector to the 34-pin male connector on the component side of the CPU board. Reference Figure 2 on page 5 for the location of the male pin connector.
5. To connect the Hard Drive *Single Drop* cable (360-010045-007), connect the single 68-pin male connector of the cable to the 68-pin female SCSI 2 connector on the front panel of the CPU board. *Do not connect the Stacked Double Connector End of the Single Drop cable to the CPU board front panel as this will prohibit further daisy chaining* (see Figure 1).

   To connect the Hard Drive *Multi-drop* cable (360-010042-000), connect the first 68-pin male SCSI 2 connector cable into the 68-pin female SCSI connector on the front panel of the CPU board (see Figure 1).

Note

When using the Multi-drop cable, ensure that the hard drive is the last device connected. Use the last connector on the cable; otherwise, use the connector best suited for your application.

6. Slide the CPU board into the VMEbus chassis.
7. Attach cables to the VMIVME-7454 front panel as shown in Figure 1.

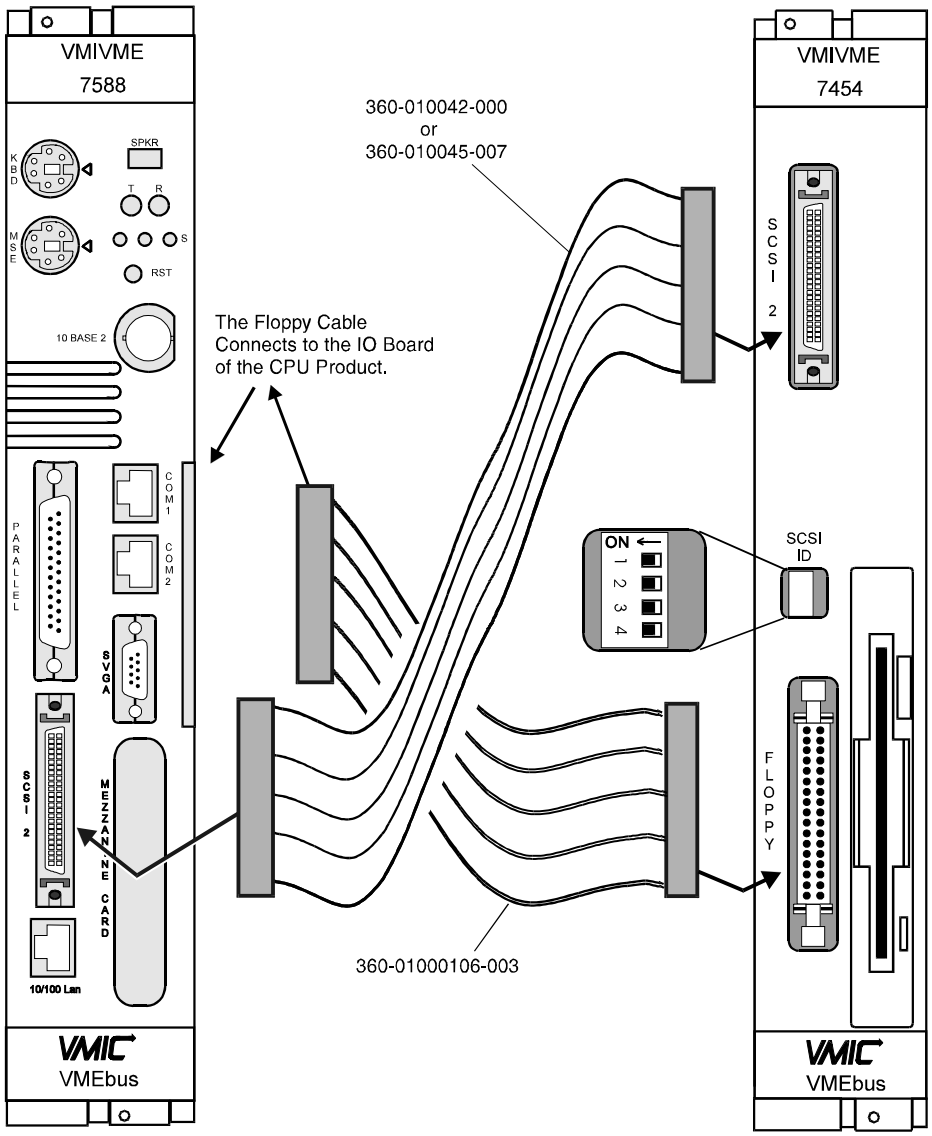


Figure 1 Connecting the VMIVME-7454 to a VMIVME7588, Including the SCSI 2 Selection Switch

Table 1 SCSI 2 ID Settings

	Switch Positions			
SCSI ID	1	2	3	4
0	Off	Off	Off	Off
1	On	Off	Off	Off
2	Off	On	Off	Off
3	On	On	Off	Off
4	Off	Off	On	Off
5	On	Off	On	Off
6	Off	On	On	Off
7 *	On	On	On	Off
8	Off	Off	Off	On
9	On	Off	Off	On
10	Off	On	Off	On
11	On	On	Off	On
12	Off	Off	On	On
13	On	Off	On	On
14	Off	On	On	On
15	On	On	On	On

* Conflicts with the CPU SCSI Controller ID of 7.

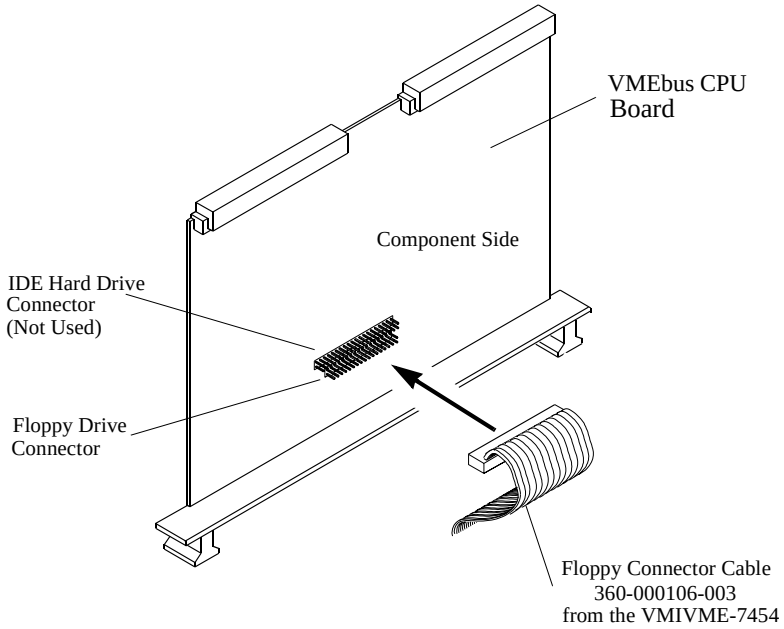


Figure 2 Connecting a Floppy Cable to a VMIVME-7588 or VMIVME-7686

Procedure 2.0 Connect the VMIVME-7454 to a VMIVME-7587

Note

When removing the CPU board and the VMIVME-7454, first eject the VMIVME-7454, then eject the CPU board and slide both boards out simultaneously.

1. Slide the VMIVME-7454 board into the VMEbus chassis card guide.
2. Select the proper SCSI ID for the hard disk. Reference Table 1 on page 4 and the SCSI ID setting locations illustrated on Figure 3. Determine the correct setting from the table and adjust the setting on the VMIVME-7454.
3. Place the CPU board, component side up, on a flat surface.
4. Connect the Floppy Drive Cable (360-000106-003) by connecting the 34-pin female connector to the 34-pin male connector on the component side of the CPU board. Reference Figure 2 on page 5 for the location of the male pin connector.
5. To connect the Hard Drive *Single Drop* cable (360-010054-007), connect the single 68-pin male connector of the SCSI 2 connector cable into the SCSI 2 Converter (323-250049-000), then plug the converter into front panel of the CPU board. *Do not connect the Stacked Double Connector End of the Single Drop cable to the SCSI 2 Converter as this will prohibit further daisy chaining* (reference Figure 3).

   To connect the Hard Drive *Multi-drop* cable (360-010049-020), connect the first 68-pin male connector cable into the SCSI 2 Converter (323-250049-000), then plug the converter into front panel of the CPU board (reference Figure 3).

Note

When using the Multi-drop cable, ensure that the hard drive is the last device connected. Use the last connector on the cable; otherwise, use the connector best suited for your application.

6. Slide the CPU board into the VMEbus chassis.
7. Attach cables to the VMIVME-7454 front panel as shown in Figure 3.

Connect the Hardware to CPU Cable to the Front Panel of the VMIVME-7587.

Connect the Cable Assembly to the Converter, then Connect the Converter to the SCSI Connector on the Front Panel of the VMIVME-7454.

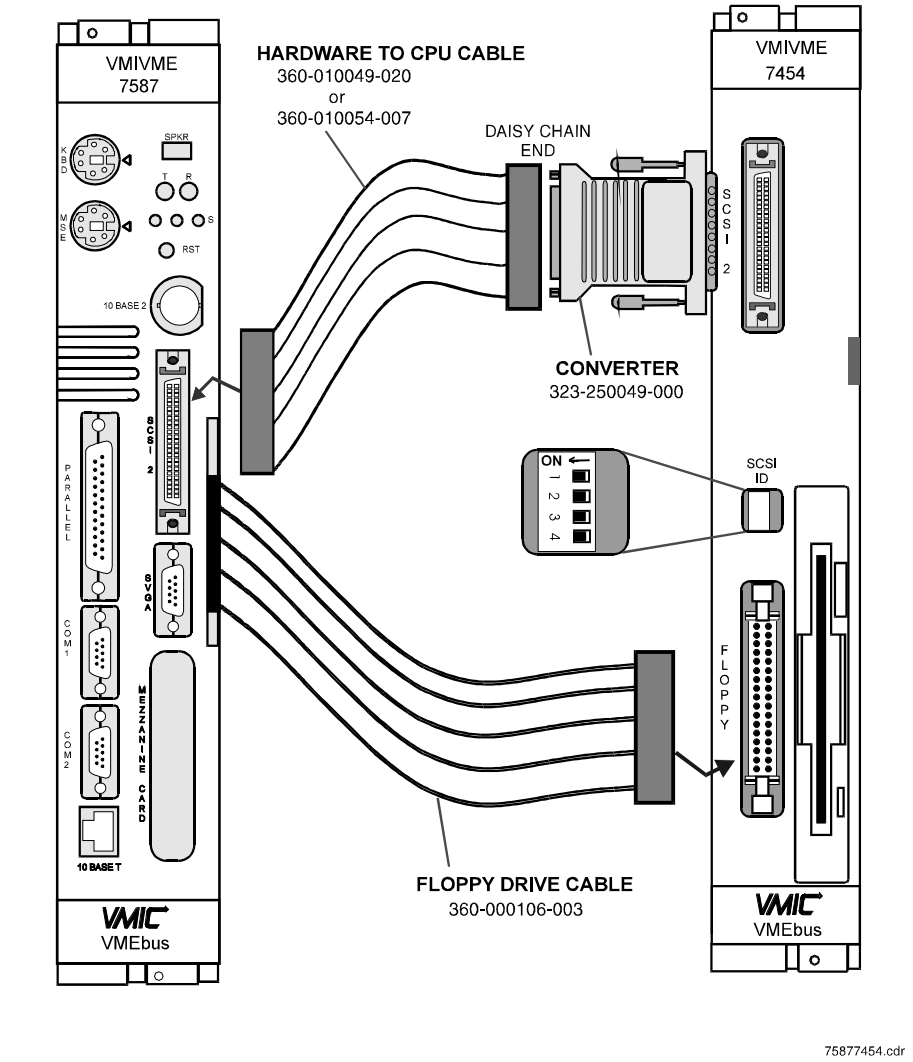


Figure 3 Connecting a VMIVME-7587 to a VMIVME-7454

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