

Adtron SV6 Installation Manual

Introduction

The SV6 is a member of Adtron's BladePak™ family of storage blades in a VME form factor that can be populated with rotating hard disks or solid state flash disks. The SV6 is a single-ended SCSI-2 device with up to 3 logical units (LUs) defined at the factory.

The SV6 has two pinout configurations. Configuration 01 is a Force P2 pinout and configuration 02 is a Motorola P2 pinout. For more information, view the SV6 Product Specification available online at <http://www.adtron.com/tech.html>.

Visit <http://www.adtron.com/catalog.html> to view the complete line of Adtron SCSI and IDE storage devices.

ESD Caution



Before handling the SV6 or any media associated with the SV6, make sure that you are working in an ESD-safe environment. This includes wearing a wrist-strap that is connected to the VME chassis. Another precaution is to touch the VME chassis before handling or installing/removing the SV6 or media.

Before installing the SV6

1. Set the SCSI ID before installing the SV6 in the VME chassis. The SCSI ID is determined by installing jumpers on pins 4, 2, and 1, or no jumpers for ID 0. JP4 is a set of option jumpers used to configure the internal SCSI ID and options. Refer to Figure 1 for the location of JP4 and Table 2 for valid SCSI ID numbers and jumper combinations. Figure 2 shows JP4 pins.
2. Determine the SCSI disconnects using Pin B on JP4, as shown in Figure 2.
3. Determine the SCSI termination using the pin combinations on JP1, as shown in Figure 3.
4. Make sure that guide rails are installed in the chassis.
5. Make sure power is off at the chassis.
6. Make sure that you are properly grounded.

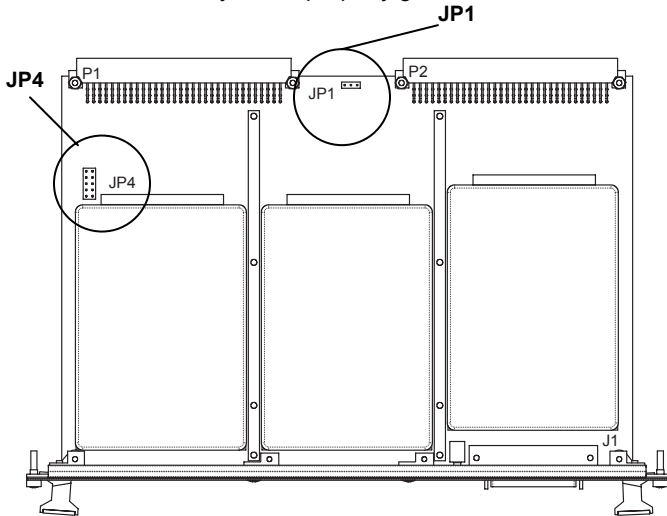


Figure 1 Jumper Location

Indicators	Activity LED – Off indicates no read/write activity to drives. Green indicates read/write activity to drives.
Interface	Single-Ended SCSI-2 through P2 and J1
Size	Compliant with ANSI/VITA 1-1994 American National Standards for VME64.
Weight	Depends on media installed.
Power	5V @ 2.5A max (startup current)

Table 1 Specifications

SCSI ID	JP4 Pin 4	JP4 Pin 2	JP4 Pin 1
0	OFF	OFF	OFF
1	OFF	OFF	ON
2	OFF	ON	OFF
3	OFF	ON	ON
4	ON	OFF	OFF
5	ON	OFF	ON
6	ON	ON	OFF
7	ON	ON	ON

Table 2 SCSI IDs

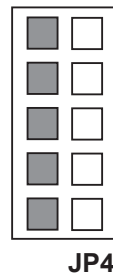


Figure 2 JP4

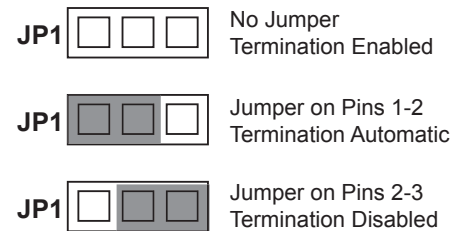


Figure 3 JP1 - SCSI Termination

Grayed pins are ground.

Disconnects

SCSI disconnects are controlled by the SCSI host adapter and are enabled by default. Without using the host adapter controls, disconnects can be disabled by installing a jumper on pin labeled B. See Figure 2 for the location of pin B on JP4.

Note: Pin A on JP4 is reserved for future use.

Termination

The SV6 includes active termination that is enabled by default. Termination may be set to automatic by installing a jumper on pins 1 and 2 on JP1. Termination may be disabled by installing a jumper on pins 2 and 3 on JP1. See Figure 3 for jumper installation.

Installing the SV6 in the chassis

1. Turn the system power off.
2. Locate an empty peripheral slot designated for storage.
3. Remove the slot cover plate, if present.
4. Unlatch the handle on the SV6 by pressing in on the release button on the handle.
5. Holding the SV6 by the handles, properly align the SV6 with the guide rails and slide it back until it touches the backplane connectors.
6. To engage the handle, simultaneously push the SV6 into the backplane while levering in on the handle until the handle locks into the chassis.
7. Fasten the screw located inside each handle to the chassis, if desired.

Cabling

The SV6 is equipped with a high-density, 50-pin SCSI connector on the front panel. Using an appropriate SCSI cable connect the SV6 to an external SCSI controller or to another SCSI device, such as a second SV6.

Device drivers

The SV6 (configurations 01 and 02) uses a widely supported SCSI controller and should operate in most modern operating systems.

Installing an operating system

The SV6 is ready to be loaded with most popular operating systems and any software applications required.

Troubleshooting

The SV6 is simple to install and operate. Table 3 lists some common problems and possible solutions. For more information, visit the Adtron website at <http://www.adtron.com/tech.html>, send email to techsupport@adtron.com, or contact technical support at 602-735-0300 in the U.S. or at +45-4557-0754 in Europe.

Problem	Possible Solutions
The SV6 drive is not seen during the BIOS load and/or the SV6 will not boot the operating system from the HDD.	Verify that JP4 jumpers on the SV6 are set correctly. Verify that BIOS settings are enabled for the SCSI bus. If J1 is used, make sure the cable is connected correctly.
After inserting the SV6 and powering up the chassis, the LED indicator is off.	Contact Adtron technical support for a Return Material Authorization number.

Warranty

Adtron warrants this product to be free from

defects in materials and workmanship for three years. If this product fails within three years due to such a defect, Adtron will repair or replace this product at no charge. This warranty does not apply if this product has been damaged by abuse, accident, disaster, misuse or incorrect installation.

Notice

This manual provides some basic feature information and installation instructions for the Adtron SV6. Adtron reserves the right to modify, amend, or in any way change the contents and/or products described herein, at any time, without notification.

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