

Adtron S35HB SCSI Hard Disk Drive Installation Manual

Introduction

Congratulations on your purchase of the Adtron Diskpak™ S35HB SCSI hard disk! The S35HB is a 3.5-inch SCSI disk with SCSI-2 narrow compliance. The S35HB is a drop-in replacement for the Adtron S35H and other life-cycle extension products in legacy applications.

Indicators	Dual color LED indicates power, busy, and error conditions
Interface	SCSI-2 narrow using a 50-pin, 0.1" pitch, dual-row. Termination power is provided by the power supply, not the SCSI bus.
Size	101.2mm [3.985"] W x 146.1mm [5.750"] D x 21.6 mm [0.852"] H
Weight	390g(13.5oz) (40GB capacity)
Power	5V +/- 5% @ 1.2A (max)
Table 1 Specifications	

ESD Caution



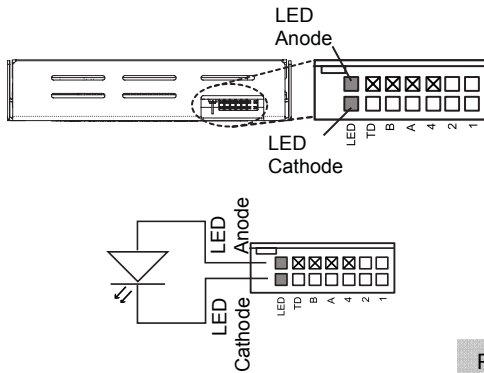
Static electricity may be discharged through the S35HB. In extreme cases this may temporarily interrupt the operation or damage components. Touch a grounded device, such as a computer case, prior to handling the S35HB.

Before installing the S35HB hardware

- 1 Turn off the computer in which you are installing the S35HB.
- 2 Make sure that you are properly grounded.
- 3 Set the SCSI ID number, termination, remote LED, and disconnect characteristics.

Setting the SCSI ID

JP1 is located on the end opposite the 50-pin SCSI connector. Figure 1 shows the S35HB with the JP1 jumper enlarged. The SCSI ID is determined by installing jumpers on pins 4, 2, and 1, or no jumpers for ID 0. The row of pins marked with a X are signal ground. Refer to Table 2 for valid SCSI ID numbers. In the table, ON is high and OFF is low.



SCSI ID	JP1 Pin 4	JP1 Pin 2	JP1 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 1 JP1 Jumpers

Termination

The S35HB includes active SCSI termination that is ENABLED by default. Termination may be DISABLED by installing a jumper on the pins labeled TD on JP1.

Remote LED

The last jumper on the left, labeled LED, in Figure 1 is used for a remote-mounted LED. The Remote LED driver is current limited. No series resistor is required.

Disconnects

SCSI disconnects are controlled by the SCSI host adapter. Disconnects are enabled by default on this product. Without using the host adapter controls, disconnects can be disabled by installing a jumper on pins labeled B on JP1. See Figure 1 for the location of pins B on JP1

Options

The jumper pin labeled A is reserved.

Installing the S35HB into a drive bay

The S35HB mounts into any standard 3.5" hard disk drive mounting application. **DO NOT** exceed the maximum insertion depth of 3.8mm [.150"] from drive edge. Consider the length of screw used and thickness of the mounting surface. A common screw length of 3/16" is provided but may not be correct in all applications.

Connect the cables to the S35HB

Using a 50-pin ribbon cable, connect the S35HB to the SCSI controller or another SCSI device. If the connector on the ribbon cable is not "keyed", note that the stripe of the cable should be nearest the power connector. Plug a power cable from the computer's power supply into the S35HB power connector. The S35HB does not require 12V.

Install an operating system

The S35HB can be formatted like any standard hard disk drive – bootable for operating system function or not bootable. Any standard disk partitioning and formatting utility can be used. You can install any operating system that you choose. The method of installing a specific operating system can vary, so consult the operating system or SCSI controller documentation for instructions.

Troubleshooting

The S35HB is simple to install and operate. Table 3 lists some common problems and possible solutions.

For more information, visit the Adtron web site at www.adtron.com/support, send email to techsupport@adtron.com, or contact technical support at 602-735-0300 in the U.S.

Warranty

Adtron warrants this product to be free from defects in materials and workmanship for the duration of the warranty period. If this product fails within the warranty period due to such a defect, Adtron will repair or replace this product.

This warranty does not apply if this product has been damaged by abuse, accident, disaster, misuse or incorrect installation. There are no user-serviceable components within the S35HB. For complete warranty information, refer to the most current product specification available at <http://www.adtron.com>.

Notice

This manual describes the features of Adtron's S35HB. Adtron reserves the right to modify, amend, or in any way change the contents and/or products described herein, at any time, without notification.

The information contained in this document is provided for reference only. Adtron Corporation does not assume any liability arising out of the application or use of the products described herein. This document may contain or reference information or products protected by copyrights or patents and does not convey any license under the patent rights of Adtron Corporation, nor the rights of others.

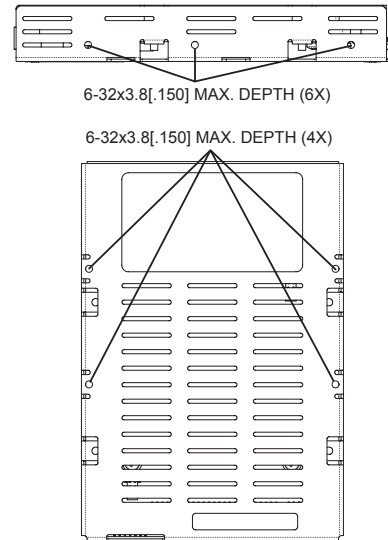


Figure 2 Mounting Holes

Problem	Possible Solutions
The S35HB is not detected on the SCSI bus during boot time.	If the LED is not lit, check the power connection. Check that the SCSI ID does not conflict with other SCSI devices. Also, check for proper SCSI Termination.
With the S35HB installed, the system hangs when I boot it.	Check that the SCSI ID does not conflict with other SCSI devices. Also, check for proper SCSI Termination.
When I first turn on the system, the S35HB's LED blinks ON and OFF once a second.	The S35HB has detected an internal problem. Contact Adtron Technical Support.
When I first turn on the system, the S35HB's LED blinks a pattern.	The S35HB has detected an internal problem. Contact Adtron Technical Support.
Table 3 Troubleshooting	



Adtron Corporation

4415 E. Cotton Center Blvd.
 Phoenix, AZ 85040
 Tel: U.S. 602-735-0300 Fax: U.S. 602-735-0349
<http://www.adtron.com>

Copyright © 1998-2007 Adtron Corporation. All rights reserved.