

# Adtron S35H Hard Disk Drive Installation Manual

## Introduction

Congratulations on your purchase of the Adtron S35H! The S35H, formerly known as the S35I2, operates as either a narrow SCSI-1 or SCSI-2 hard disk drive that fits into a 3.5" form factor.

Visit [www.adtron.com/catalog.html](http://www.adtron.com/catalog.html) to view the complete line of Adtron SCSI and IDE storage devices.

## ESD Caution



Static electricity may be discharged through the S35H. In extreme cases this may temporarily interrupt the operation or damage components. To prevent this, touch a grounded device, such as a computer case, prior to handling.

<b>Indicators</b>	Single-color LED indicates BUSY and Error conditions
<b>Interface</b>	SCSI-1 or SCSI-2 using a 50-pin, 0.1" pitch, dual-row. Termination power is provided by the power supply, not the SCSI bus.
<b>Size</b>	101mm [3.985"] W x 145mm [5.72"] D x 21.6 mm [0.852"] H
<b>Weight</b>	397 g (14 oz)
<b>Power</b>	5V @ 900 mA (typ)

Table 1 Specifications

## Before installing the S35H hardware

- 1 Turn off the computer in which you are installing the S35H.
- 2 Make sure that you are properly grounded.
- 3 Set the SCSI ID number, termination, remote LED, and disconnect characteristics.

## Set the SCSI ID

JP1 is located on the end opposite the 50-pin SCSI connector. Figure 1 shows the S35H 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 low and OFF is high.

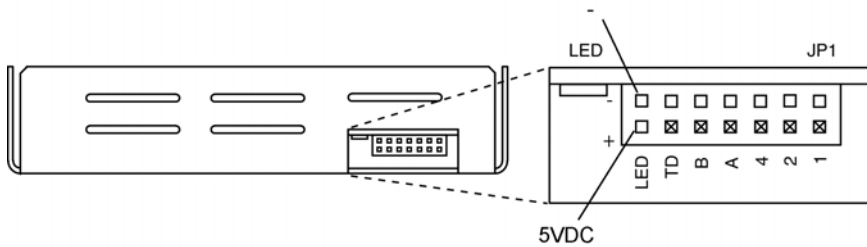


Figure 1 JP1 Jumpers

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

## Termination

The S35H 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 in Figure 1 is used for a remote-mounted LED. The pin nearest the "+" sign runs through a 180 Ohm resistor to +5V. The other pin, labeled "-" drives the LED active low.

## Disconnects

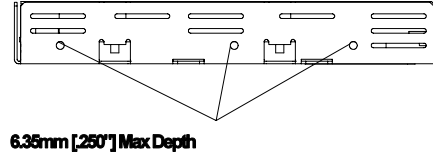
SCSI disconnects are controlled by the SCSI host adapter. Disconnects are enabled by default on this product. Without using the host adapter controls, disconnects can be disabled by installing a jumper on pin labeled B on JP1. See Figure 1 for the location of pin B on JP1

## Options

The pin labeled A is reserved.

**Install the S35H into a drive bay**

The S35H mounts into any standard 3.5" hard disk drive mounting application. **DO NOT** exceed the maximum insertion depth of 6.35mm [.250"] from drive edge. Consider the length of screw used and thickness of the mounting surface. A common screw length of 1/4" is provided but may not be correct in all applications.



**Connect the cables to the S35H**

Using a 50-pin ribbon cable, connect the S35H 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 S35H power connector. The S35H does not require 12V.

**Install an operating system**

The S35H 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.

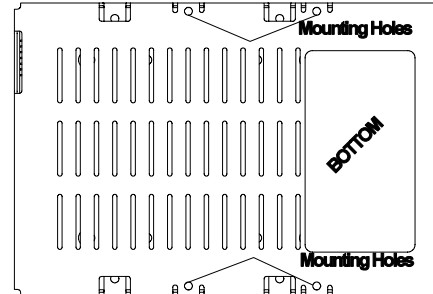


Figure 2 Mounting Holes

**Troubleshooting**

The S35H is simple to install and operate. However, if you experience problems, the table below lists some common problems and possible solutions.

For more information, visit the Adtron web site at <http://www.adtron.com/tech.html>, send email to [techsupport@adtron.com](mailto: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 S35H is not detected on the SCSI bus during boot time.	Check that the SCSI ID does not conflict with other SCSI devices. Also, check for proper SCSI Termination.
With the S35H 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 S35H's LED blinks ON and OFF once a second.	The S35H has detected an internal problem. Contact Adtron Technical Support.
When I first turn on the system, the S35H's LED blinks a pattern.	The S35H has detected an internal problem. Contact Adtron Technical Support.

Table 3 Troubleshooting

**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. There are no user-serviceable components within the S35H.

**Notice**

This manual describes the features of Adtron's S35H. 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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