

Adtron Diskpak™ I35MB Installation Manual

Introduction

Congratulations on your purchase of the Adtron Diskpak model I35MB hard disk drive! The I35MB incorporates Adtron ActiveRAID™ technology with RAID-1 mirroring. RAID-1 mirroring between two hard disk drives provides data redundancy and rebuild, independent from the host CPU.

Visit www.adtron.com/products to view the complete line of Adtron SATA, SCSI and IDE flash disk drives.

Indicators	Activity LED – Green indicates no read/write activity to drives. Orange indicates read/write activity to drives. See I35MB Operations Manual for complete descriptions.
Interface	Standard 40-pin IDE interface. See the I35MB Product Specification for complete IDE interface details.
Size	101.6mm [4.00"] W x 146.1mm [5.750"] D x 25.3mm [.997"] H
Weight	326.5g [11.52oz]
Power	5V @ 2.00 A

Table 1 Specifications

ESD Caution



Static electricity may be discharged through the I35MB. 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.

Before installing the I35MB hardware

1. Turn off the computer in which you are installing the I35MB.
2. Make sure that you are properly grounded.
3. Set the master/slave jumpers and remote Activity LED. See instructions below.
4. See the I35MB Operations Manual for more information, available online at www.adtron.com/support.

Set the master/slave and remote LED jumpers

The master/slave and remote LED jumper is located on the front of the I35MB between the IDE and power connectors. Figure 1 shows the front view of the I35MB's 40-pin connector and the location of the jumpers. Refer to Table 2 for IDE jumper signals. Figure 1 also shows the valid jumper configurations for master, slave, and cable select.

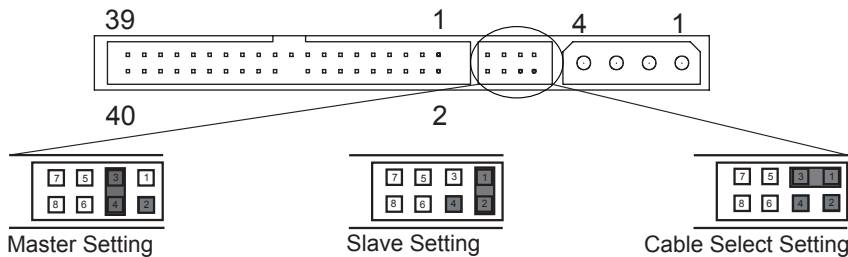


Figure 1 Jumper & Descriptions

Pin	Signal
1	-SLAVE
2	GND
3	-MASTER
4	GND
5	-EXTLED
6	RES to +3V
7	No connect
8	No connect

Table 2 Signals

Remote LED

Pins 5 and 6 in Figure 2 are used for a remote-mounted Activity LED. Pin 6 runs through a 120 Ohm resistor to +3.3V.

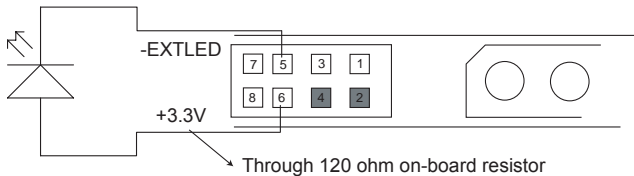


Figure 2 Remote LED

Install the I35MB into a drive bay

The I35MB mounts into a standard 3.5" hard disk drive bay and may be mounted from the side or the bottom. **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. Refer to Figure 3 for mounting hole locations.

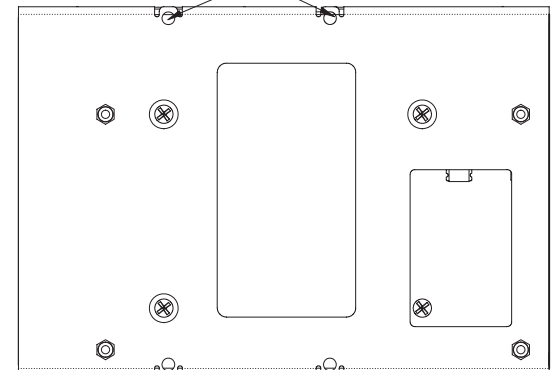
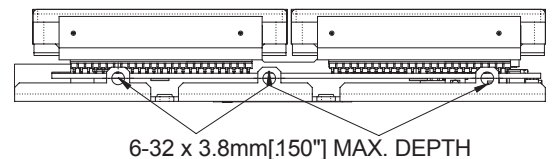


Figure 3 Mounting Holes

Connect the cables to the I35MB

Using an 80-conductor cable (40-pin connector), connect the I35MB to the IDE controller. If the connector on the ribbon cable is not "keyed", the stripe of the cable should be inserted nearest the power connector. Plug a power cable from the computer's power supply into the I35MB power connector. The I35MB does not require 12V.

Install an operating system

The I35MB 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 you choose that is compatible with IDE devices. The method of installing a specific operating system can vary, so consult the operating system documentation for instructions.

Troubleshooting

The I35MB 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. or at +45-4557-0754 in Europe.

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 I35MB.

Notice

This manual describes the features of Adtron's I35MB. 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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Problem	Possible Solution
The I35MB is not recognized by the computer.	Check system BIOS for correct settings to IDE devices. Change any IDE settings not enabled. Check manufacturer's manual for information on BIOS settings. Make sure the IDE cables are seated and functional.
The computer recognizes one drive, but not the other.	One drive must be master and the other one slave. Check the master/slave jumper settings on both drives.
When I turn on the computer, the I35MB's LED blinks in a definite pattern.	The I35MB has detected an internal problem. Note the blinking LED pattern and color. Contact Adtron Technical Support with BIOS, system board, and operating system information.

Table 3 Troubleshooting



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