

Adtron IC6MB Installation Manual

Introduction

The Adtron IC6MB is a 6U x 4HP PICMG® CompactPCI® (cPCI®) compatible member of Adtron's Managed Reliability Technology™ family of storage systems. 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 SCSI and IDE flash and hard disk storage blades.

ESD Caution



Before handling the IC6MB, IC6RTB or UC6IRTB, or any media associated with the IC6MB, make sure that you are working in an ESD-safe environment. This includes wearing a wrist-strap that is connected to the cPCI chassis. Another precaution is to touch the cPCI chassis before handling or installing/removing the IC6MB, IC6RTB or UC6IRTB, or media.

Before installing the IC6MB

The IC6MB master/slave settings and DMA mode are set at the factory based on the configuration you ordered. See the IC6MB Operations Manual for more information, available online at <http://www.adtron.com/support>, before installing the IC6MB.

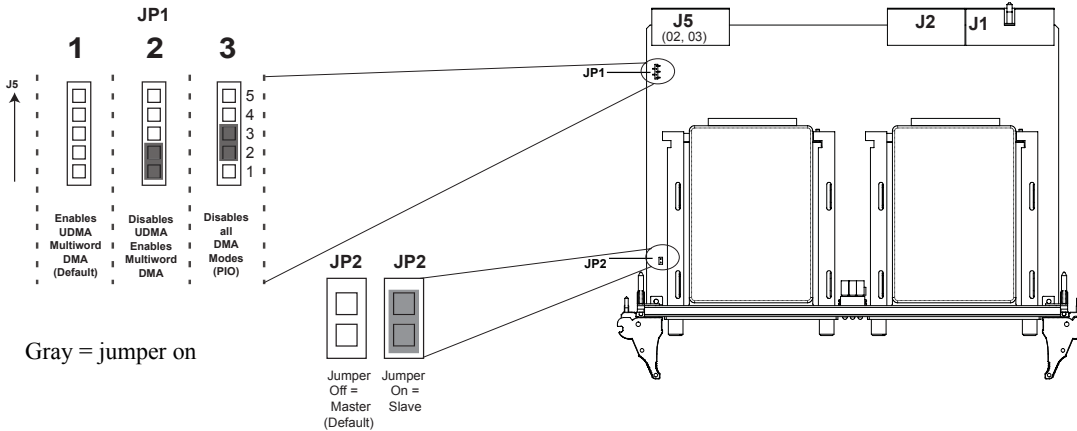


Figure 1 IC6MB Jumpers

Setting DMA Modes

JP1 is used to set DMA modes. By default, UDMA Multiword DMA is set on the IC6MB. If the Single Board Computer's (SBC) secondary channel being used has transmission length restrictions, users can configure the IC6MB to communicate at a lower data transfer mode. See Figure 1 for lower transfer modes and jumper setting details, such as PIO.

Setting Master/Slave

JP2 is used to set Master/Slave. By default, the JP2 jumper is off and the IC6MB is the master device. By placing a jumper on JP2, the IC6MB is the slave device. See Figure 1 for the location of JP2. Refer to the Operations Manual for complete details.

Installing the IC6MB in the chassis for the first time

1. Make sure that you are properly grounded.
2. Turn the system power off. (Optional for configuration 02.)
3. Locate an empty 6U peripheral slot. (Not the system slot with red guide rails.)
4. Remove the slot cover plate, if present.
5. Unlatch both handles on the IC6MB by pressing in on the release button in each handle.
6. Holding the IC6MB by the handles, properly align the IC6MB with the guide rails and slide it back until it touches the backplane connectors.
7. To engage the handles, simultaneously push the IC6MB into the backplane while levering in on both handles until the handles lock into the chassis.
8. Fasten the screw located inside each handle to the chassis, if desired.
9. Restore power to the chassis, if turned off in step 2.

Indicators	IPMI LED - the health of IPMI. Flashing orange indicates initializing. Green indicates good. Solid orange indicates an error. Activity LED – Green indicates no read/write activity to drives. Orange indicates read/write activity to drives. See IC6MB Operations Manual for complete descriptions.
Interface	Optional onboard bootable IDE host adapter using PCI-to-IDE controller. Optional offboard IDE connection through RJ5 on the IC6RTB or UCIRTB.
Size	6U x 4HP
Weight	536g [19oz]
Power	3.3V @ 2.0A, 5V @ 2.0A (startup current)

Table 1 Specifications

Installing the IC6RTB or UC6IRTB in the chassis

1. Make sure that you are properly grounded.
2. Turn the system power off. (Optional for configuration 02.)
3. Locate the empty 6U peripheral slot directly opposite the IC6MB.
4. Remove the slot cover plate, if present.
5. Unlatch both handles on the RTB by pressing in on the release button within the handle.
6. Holding the RTB by the handles, properly align the RTB with the guide rails and slide it back until it touches the backplane connectors.
7. To engage the handles, simultaneously push the RTB into the backplane while levering in on both handles until the handles lock into the chassis.
8. Fasten the screw located inside each handle to the chassis.
9. Restore power to the chassis, if turned off in step 2.

Installing the device drivers

IC6MB configurations 01 and 03 include the PCI-to-IDE controller and may require device drivers for certain operating systems. The included diskette contains device drivers for DOS, Win 9x, Windows ME, NT 4.0 and 2000/XP. Refer to the README file on the diskette for the latest installation information.

See the IC6MB Operations Manual for complete descriptions of device drivers.

Installing an operating system

The IC6MB is ready to be loaded with most popular operating systems and any software applications required.

Troubleshooting

The IC6MB is simple to install and operate. Table 2 lists some common problems and possible solutions.

For more information, visit the Adtron web site at <http://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 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's IC6MB. 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 Solutions
The IC6MB drive is not seen during the BIOS load.	Verify that JP2 jumper on the IC6MB are set correctly. Verify the BIOS settings are enabled for the IDE bus. Make sure the IC6MB and the IC6RTB or UC6IRTB are in corresponding slots. If J5 is used, make sure the cable is attached to the RTB.
After inserting the IC6MB and powering up the chassis, if the IPMI LED indicator is off.	Contact Adtron technical support for a Return Material Authorization number.
Single Board Computer (SBC) is not transferring data at desired transfer mode.	Shorten the cable length or force multiword modes. See the section in this manual, Setting DMA Modes to reduce transfer modes.

Table 2 Troubleshooting



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