

# WatchDog System Recovery Card



## User's Manual



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# *Section I: Introduction*

Owning a computer could be a nightmare sometimes! Have you ever installed new software and corrupted your original computer settings? Have you ever formatted or deleted your hard drive partition accidentally? Have your CMOS battery ever died on you and lost all your CMOS settings? You are now relieved from those nightmare with the WatchDog System recovery card!

The WatchDog System recovery card is all you will need to check if your CMOS has been changed. Not only will it notify you of what has happened; it will also perform a recovery operation to reset your system setting back to what you had them originally. Perhaps viruses or other causes have corrupted your hard disk. No need to worry. Simply rebooting with the WatchDog, the recovery card will automatically recovery your system data.

## *Section II: Specification*

<b>Operating System Support</b>	DOS, OS/2, Windows 95, Window NT ... etc.
<b>BIOS Support</b>	All Kinds of BIOS
<b>Expansion Slot Required</b>	ISA
<b>Main Memory Used</b>	< 5KB space need
<b>Hard Drive Interface Support</b>	IDE, EIDE, SCSI
<b>Hardware Requirements</b>	IBM PC compatible / 386 or higher / Color Monitor
<b>CMOS backup / restore</b>	Yes (Auto analyze)
<b>Reboot and Auto restore</b>	Yes
<b>Setup without Floppy Disk</b>	Yes
<b>Upgrade from Floppy Disk</b>	Yes
<b>IRQ and I/O</b>	Not required
<b>Language</b>	English / Chinese
<b>ROM Address Select</b>	Adjust by jumper (Default C8000H)
<b>ROM Address Options</b>	C8000H / CC000H / D000H / D4000H / D8000H / DC000H
<b>Physical Size</b>	10.5cm X 5cm
<b>Default Boot-up</b>	Yes
<b>Multiple Boot-up</b>	Up to 15 Operation Systems
<b>Public Area of Data Disk</b>	One (can be accessed by all Operation Systems)
<b>Auto Bootup Menu Delay</b>	1 to 99 Seconds
<b>Disable Boot Disk</b>	Yes
<b>Backup Boot Disk</b>	Yes
<b>Restore Boot Disk</b>	Yes
<b>User Password</b>	Yes
<b>Supervisor Password</b>	Yes
<b>S.M.A.R.T. Support</b>	Yes
<b>Hard Drive Copy</b>	Yes
<b>Preset Boot Disk Auto Restore</b>	Yes (any time/day/week/month)
<b>Data Disk Auto Clear</b>	Yes
<b>Uninstallation</b>	Yes
<b>Boot-up Title String</b>	Yes
<b>FCC</b>	Yes (Class B)

## *Section III: Installation*

### **Step One: Prepare the host system and the adapter**

When you are ready to begin, power down the host system. Referring to your host system owner's manual, remove the cover to gain access to the motherboard and expansion slots. The recovery card contains sensitive electric components that can be easily damaged by static electricity. Simply touch the power supply to discharge any static electricity.

### **Step Two: Install the adapter**

To install the recovery card, remove the mounting screw and the existing bracket from the rear panel behind the selected ISA slot. Press the recovery card into the selected ISA slot. Align the mounting bracket and reinstall the mounting screw. Put back the cover to the system.

### **Step Three: Power up the System**

Once the adapter is installed, power up the system. As the system powers on, the BIOS performs a self test. Select "2" to install WatchDog System Recovery Card. A setup menu will be shown on the screen, press <F2> to change language mode.

### **Step Four: Make WatchDog Partition**

In order to have your data protected, data must be resided in a WatchDog partition. Create a WatchDog partition from the WatchDog tools under the setup menu. Up to 15 WatchDog partitions could be installed at one time. Please refer to page <7> for details.

# *Section IV: Configuration*

## **1. WATCHDOG MODE SETUP**

### **CMOS AUTO RESTORE .....[ ]**

If you choose [Y], every time system bootup it will check the BIOS. If there is any changes, it will be returned to original state without prompt. If the choice is [N], you will be notified on screen. You will be given options <R> to recover original state, <B> to save new BIOS setup, and <I> to ignore.

### **AUTO BOOTING SEQUENCE .....[ ]**

You can choose which operation system you decide to boot automatically from when you power on your computer. Use [PgUp] or [PgDn] to alter your choice. If you choose [menu mode], WatchDog will show all operation systems available for your to select. This function could be used as operation limitation for selected group of users.

### **W.DOG H. D. MODE .....[ ]**

[AUTO FIX] -- Every time computer is power up, hard drive will return to the original state with no prompt.

[MANUAL] -- WatchDog will keep last hard drive condition when boot up. Press <F3> to recover to original state. Press <F4> to update hard drive data at setup menu.

[SUPERVISOR] -- Software will be installed to hard drive with no way to recover. Previous state will not be recovered. Please remember to switch to [AUTOFIX] or [MANUAL] mode, or your data will not be protected.

### **USER PASSWORD .....[ ]**

Computer will prompt for user password at bootup. Security features of computer use for designated users only.

### **SUPERVISOR PASSWORD .....[ ]**

This password intends to prevent others to change WatchDog setup. Hold down the <PgDn> key when booting. The computer will prompt you a password for accessing the setup menu. When the supervisor password menu is entered at the bootup menu, WatchDog will switch to [SUPERVISOR] mode temporally.

## **2. WATCHDOG TOOL BOX**

### **MAKE WATCHDOG PARTITION**

Because WatchDog is PnP, no setup disk is required. In order to protect your data using WatchDog Recovery Card, data have to be installed at a WatchDog partition. Because WatchDog uses its own hard drive format to achieve data recovery and multi-booting function, all original hard drive data will be destroyed as if you do a <fdisk> command in DOS. Up to 15 operating system could be installed at one time. Simply specify partition name and capacity and WatchDog partition will be made upon <F10> Save & Exit. Install operation system as before. Please remember to change to [AUTOFIX] or [MANUAL] mode.

Although WatchDog can recover your data, software installed in [SUPERVISOR] mode has no protection at all. Please make sure program disks have no virus prior to installation. After finish installing software, remember to change to [AUTOFIX] or [MANUAL] mode.

Public Data Area can be shared among all operating system partition. It's totally open to users with no protection by WatchDog. This partition performs as a normal hard drive. WatchDog creates a mirror partition for backup purposes. It will be the same sizes as your biggest WatchDog partition. Please ensure to plan your partition sizes carefully.

### **CHANGE BOOT SYSTEM NAME**

After installing of WatchDog, you could modify system name using this function.

### **H. D. COPY**

Hard drive could be copied from one to another using this function. Hard drive data could be copied from either <C> to <D> or vice versa. This function is available only at WD003 version and above.

### **UPDATE H. D. DATA**

This function available is only available in [MANUAL] mode. It can update the current hard drive data.

## ***Section V: Uninstallation***

When WatchDog System Recovery Card is being removed from the system, there is no need for software installation again. If you decide to discontinue your use of WatchDog System Recovery Card, please follow the instruction as below:

1. Backup all your data.
2. Use a boot disk to reboot from <A:>
3. Run "FDISK /MBR"
4. Run "FDISK" to create new partition
5. Format your new partition.
6. Reinstall all system and software as needed.

## ***Section VI: Y2K Compliance Statement***

WatchDog System Recovery Card does not use any date-specific function or perform any analysis on stored data. Therefore, all WatchDog System Recovery Card series are Year 2000 compliant.

# *Appendix: FCC Compliance Statement*

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Move the equipment away from the receiver
- Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for additional suggestions

You are cautioned that any change or modifications to the equipment not expressly approve by the party responsible for compliance could void your authority to operate such equipment.

This device complies with Part 15 of the FCC Rules. Operation is subjected to the following two conditions:

- 1) this device may not cause harmful interference and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

## **WATCHDOG SYSTEM RECOVERY CARD NT INSTALLATION INSTRUCTION**

1. Prepare hard drive for WatchDog install. Make sure partition is empty without existing partition.
2. Boot system with WatchDog mounted onto an available ISA slot in PC.
3. Select option#2 to setup WatchDog
4. Make WatchDog Partition
5. Select “Y” to confirm partition.
6. Select how many partitions desired. WatchDog can support up to 15 operation at 1 hard drive.
7. Input system volume label.
8. Specify volume capacity. Since WatchDog requires the equal spaces for partition backup, the maximum partition will be half of the total hard drive capacity. Please note that WatchDog does not protect public partition. You could select public partition to be empty.
9. Select “NTFS” for system type.
10. Select “BACKUP FIX” for system mode.
11. Press <F10> to make partition and exit.
12. Press <F10> to save and exit.
13. Power off computer without using Ctrl-Alt-Del.
14. Select CDROM to be bootable. Please note that WatchDog requires NT Installation with CDROM only. Network installations of NT will not work.
15. Select partition to boot with
16. Setup NT as usual. Please note that partition has been created. Do not recreate partition by NT.
17. Format partition using NTFS file system and follow setup procedure as future.
18. After all setup procedures are finished and installation is satisfied, reboot system and press <F3> to backup hard drive content.

Now, WatchDog protects your hard drive. If any data loss or crash to your hard drive, simply reboot the system and press <F4> to restore data from WatchDog backup partition. Press <F3> to Backup partition when other application has been installed.

# WATCHDOG SYSTEM RECOVERY CARD WIN9x INSTALLATION INSTRUCTION



1. Prepare hard drive for WatchDog install. Make sure partition is empty without existing partition.
2. Boot system with WatchDog mounted onto an available ISA slot in PC.
3. Select option#2 to setup WatchDog
4. Make WatchDog Partition
5. Select "Y" to confirm partition.
6. Select how many partitions desired. WatchDog can support up to 15 operation at 1 hard drive.
7. Input system volume label.
8. Specify volume capacity. Since WatchDog requires the equal spaces for partition backup, the maximum partition will be half of the total hard drive capacity. Please note that WatchDog does not protect public partition. You could select public partition to be empty.
9. Select "FAT32" for system type.
10. Select "SYSTEM SET" for system mode.
11. Press <F10> to make partition and exit.
12. Press <F10> to save and exit.
13. Power off computer without using Ctrl-Alt-Del.
14. Install and setup WIN9x as usual. Please note that partition has been created already by WatchDog. Do not recreate partition by Fdisk.
15. After all setup procedures are finished and installation is satisfied, reboot system and press <F3> to backup hard drive content.
16. Restart computer and press <F10> when "Starting Windows 9x" is displaying to enter the WatchDog setup screen.
17. Select "MANUAL" or "AUTOFIX" for system mode.
18. Press <F10> to save and exit.

Now, WatchDog protects your hard drive. If any data loss or crash to your hard drive, simply reboot the system and press <F4> to restore data from WatchDog backup partition. Press <F3> to Backup partition when other application has been installed.