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# CHAPTER 1

## INTRODUCTION

This manual introduce how to set-up and upgrade this mainboard. It's an overview of the layout and features of the mainboard, and provides necessary information for you to change the configuration or system environment.

This manual is divided into two sections :

PART ONE includes page A and page B about this mainboard's layout diagram. You should refer them when you set-up and upgrade your system hardware.

PART TWO includes three chapters as following:  
Chapter 1 is an overview of the mainboard features and this mainboard's packing contents.

Chapter 2 explains how to upgrade and change hardware configuration including memory, CPU, and lists jumper settings and connectors.

Chapter 3 is the user's guides of AWARD BIOS setup utility, and Flash ROM BIOS update procedures. The menu showed in this chapter are default setting.

Your system dealer will set up the mainboard according to your demand of computer. It means your mainboard's current setting may not be the same as the defaults shown in this user's manual. If you would like to change your configuration, please ask your dealer firstly, be sure this will not against your system warranty.  
Or  
ask for your dealer to do it for you.

## 1-1 SYSTEM FEATURES

Supports INTEL 75/90/100/120/133/150/166MHz and later Pentium CPUs with one ZIF socket 7.

INTEL TRITON chipset and Winbond high-speed multi I/O chipset. Supports Asynchronous SRAM sockets for eight SRAM chips and one Synchronous COAST (Cache On A STick) slot for Pipeline Burst SRAM module.

Write Back / Write Through Level 2 external Asynchronous cache using mixed mode SRAM with size of 256KB / 512KB.

Using four 72-pin SIMM sockets, provides two banks of 64-bit wide path up to 128MB addressing page mode DRAMs.

Supports EDO DRAM and mixing of EDO SIMMs with fast page mode DRAM SIMMs among different banks.

Four PCI master slots and three 16-bit ISA slots.

Dual IDE connectors support up to four devices in two channels for connection of high capacity hard disk, CD-ROM, tape backup etc.. PCI IDE controller supports PIO mode 0 to mode

4.

Auto detecting of installed IDE devices through BIOS utility.

"True" Green power management for CPU stop clock state

On board high-speed Multi-I/O connectors:

one FDC port supports two devices up to 2.88MB

two 16550A fast UARTs compatible serial ports

one EPP/ECP mode parallel port

The selections of all primary and secondary ISA addressing of

COM1 - 4, LPT 1-3 and FDC disable or enable from BIOS

SETUP configuration please refer to "CHIPSET FEATURES

SETUP" in the chapter three.

Board dimension : 220mm x 280mm , 8.66" x 11.02"

### REMARK

Intel is a registered trademark of Intel Corporation.

MS-DOS is a registered trademark of Microsoft Corporation.

IBM ,IBM PC ,IBM AT and IBM XT are registered trademark of International Business Machines Corporations.

All other brands and product names are trademarks registered trademarks of their respective companies.

## 1-2 CHECK LIST OF THE PACKING

The mainboard comes securely packed in a durable box and shipping carton. If any of the above items are missed or damaged, please contact your system dealer.

Each mainboard containing:

<u>Q'TY</u>	<u>Description</u>
1	Mainboard : ATC-1535.
1	Diskette : Enhanced IDE driver (3.5").
1	Cable : Enhanced IDE connector.
1	Cable : F.D.D. connector.
1	Cable : Serial port.
1	Cable : Serial/Parallel.
1	Manual : User`s manual.

NOTE : Leave the mainboard in its original packing until you are ready to install it.

# CHAPTER 2 INSTALLATION

## 2-1 CPU INSTALLATION

ATC-1535 can support INTEL Pentium 75/90/100/120/133/150 /166MHz and later CPUs. For installation, please notice CPU pin 1 must align with the ZIF socket 7 Pin 1 location.

### 2-1-1 CPU TYPE SELECTION

INTERNAL CPU CLOCK	JP7	JP8	JP10	JP11	Ext.x Fre.
75MHz	open	open	close	close	50x1.5
90MHz	open	open	close	open	60x1.5
100MHz	open	open	open	close	66x1.5
120MHz	open	close	close	open	60x2.0
133MHz	open	close	open	close	66x2.0
150MHz	close	close	close	open	60x2.5
166MHz	close	close	open	close	66x2.5

! ° If you use the higher internal CPU clock in the future, please refer to 2-1-2 for jumper setting.

### 2-1-2 CPU CLOCK SETTING

The following setting is for CPU speed higher than 166MHz.

EXTERNAL CPU CLOCK	JP10	JP11
50(MHz)	close	close
60(MHz)	close	open
66(MHz)	open	close

<b>INTERNAL CPU CLOCK</b>	JP7	JP8
<b>INTEL EXTERNAL CLOCK X 1.5</b>	open	open
INTEL EXTERNAL CLOCK X 2.0	open	close
<b>INTEL EXTERNAL CLOCK X 2.5</b>	close	close
<b>INTEL EXTERNAL CLOCK X 3.0</b>	close	open

## 2-2 SYSTEM MEMORY INSTALLATION

ATC-1535 provides four 72-pin SIMM sockets for system memory expansion from 4MB to 128MB. These four SIMMs are arranged to two banks, Bank0 (SIMM 1,2) and Bank1(SIMM 3,4), please refer to page A,B. Each bank provides 64-bit wide data path. There are no jumper setting required for the memory expansion, and it will be detected by BIOS automatically.

This mainboard can accept either Fast Page Mode or EDO Mode (Extended Data Out) DRAM, with a speed at least 70 nanosecond. You should plug DRAM modules into two sockets (same bank) or four sockets at one time. Each pair of modules must be the same size, type and speed; no matter single-side or double-side module. This mainboard supports mixing of EDO SIMMs with fast page mode DRAM SIMMs among different banks.

## System Memory Combinations Options ; °

BANK0	BANK1	Total Memory
SIMM1,2	SIMM3,4	SIMM1-4
2MBx2	-	4MB
	2MBx2	4MB
4MBx2	-	8MB
-	4MBx2	8MB
8MBx2	-	16MB
-	8MBx2	16MB
4MBx2	4MBx2	16MB
16MBx2	-	32MB
-	16MBx2	32MB
8MBx2	8MBx2	32MB
32MBx2	-	64MB
-	32MBx2	64MB
16MBx2	16MBx2	64MB
32MBx2	32MBx2	128MB

## 2-3 SRAM INSTALLATION

ATC-1535 can use standard Async. SRAM in socket (U29 to U36) or Sync. Pipeline Burst SRAM module in COAST slot. This mainboard uses Mixed Mode (5V in and 3.3V out) SRAM. The setting is according to the mode you choiced, and to the size you used.

TAG SRAM is the same socket for both of SRAM types ( location U21). Most of Pipeline Burst SRAM modules will be included a TAG SRAM on board, if you purchase the module without TAG SRAM, you should put a TAG SRAM into U21. For the standard Async. SRAM you can use write-back or write through Level 2 SRAM.

You can use Async. SRAM or Sync. SRAM (Pipeline Burst) in a time, there are no jumper setting and BIOS value adjustments for changing the SRAM type. If you would like to change your SRAM type from Sync. to Async. or from Async. to Sync., you have better to move original SRAM out.

Following setting are only for using Async. SRAM chip.

; ° Async. SRAM Size Jumper Setting :

cache size	JP13	JP14	JP16
256KB	1-2	1-2	1-2
512KB	2-3	2-3	2-3

**; ° System Memory Combinations Options ; °**

SRAM TYPE	SRAM SIZE	DATA SRAM	TAG SRAM
Asynchronous	256KB	32K8 x 8pcs	8K8,16K8 or 32K8 x 1pc
	512KB	64K8 x 8pcs	16K8 or 32K8 x 1pc
Synchronous	256KB	32K32 x 2pcs on board	8K8,16K8 or 32K8 x 1pc

; ° JP17 Setting is for Async.SRAM Voltage Type :

JP17	1-2	Mixed Mode ; °
	2-3	3.3V

; ° Currently ATC-1535 only supports Mixed Mode type.

## 2-4 OTHR JUMPERS AND CONNECTORS

The location of following jumpers and connectors please refer to page A and B.

Connector	Function	Remark
J7	IDE LED	Pin 2 is '+' **
J8	Hardware PMU	Power Management Unit
J14	K-LOCK	KeyLock Connector
J15	SPK	PC Speaker Connector
J16	Turbo LED	Pin 1 is '+' **
J18	Reset	Hardware Reset Switch

; ° Turbo Switch is fixed to open mode for the TURBO function.

\*\* If you plugged wrong side, the light will be weaker, but the IDE devices are still workable.

Jumper	Function	Remark
JP9	ATBUS CLK	1-2: PCI CLK/3 for external CPU clock 50MHz 2-3: PCI CLK/4 for external CPU clock 60, 66MHz
JP6	CMOS	1-2: Normal ; 2-3: Clear CMOS
JP5	M/C	Open: Color ; ; Close: Mono

; is default setting

; ; is factory default setting (fixed)

Connector	Function	Remark
CN1	PS/2 Mouse	Optional
CN2	COM 1	Serial Port Cable Connector
CN3	COM 2	Serial Port Cable Connector
CN4	FDC	Floppy Disk Drive Cable Connector
CN5	LPT	Parallel Port Cable Connector
CN7	IDE1 Primary	1st IDE Drive Cable Connector
CN6	IDE2 Secondary	2nd IDE Drive Cable Connector

° When you plug a cable into the above I/O connectors, you should let the pin 1 edge of the cable is at the pin 1 end of the connector.

# CHAPTER 3 AWARD BIOS SETUP

This chapter explains the system BIOS setup, and how to update new BIOS. All BIOS screens showed on following pages are default values, your system dealer will set up these values according to your demand of computer.

ATC-1535 uses Flash ROM (5V or 12V) to make BIOS easier to be updated by the floppy disk-based program. and to committe MicroSoft Windows 95 plug & play feature.

There are two jumpers should be set for Flash ROM and BIOS.

° JP12 Setting is for Flash ROM VoltageType

1-2:	+ 5Volt ; ;
2-3:	+12Volt

; ; is factory default setting (fixed)

° JP6 Setting is for Update System BIOS

1-2	NORMAL ;
2-3	CLEAR CMOS

; is defaule setting

## 3-1 UPDATE BIOS PROCEDURES

If the BIOS should be updated, you can get the new BIOS diskette from your system dealer. The BIOS diskette is included 3 files they are "sst.exe", this BIOS update utility; the new version BIOS file with a file name about its version number; and a text file, a readme file. The update procedures are as following:

1. Boot from hard disk drive C, then change to floppy A (or B).
2. Insert the updated diskette to drive A (or B), press "sst" to run the BIOS update utility.
3. Press new BIOS file name to install the new BIOS.
4. Follow the utility status to back up your existing system BIOS to a file named "bios. old" file. Then the original BIOS will be saved in diskette.
5. Press "Y" when the screen shows " Are you sure to program (Y/N) ?" Now the BIOS updated is finished.
6. Then exit the utility and turn off the power, set JP6 to '2-3' to clear the CMOS. After 10 seconds, set JP6 to '1-2', become the normal status.
7. Turn the power on and test your system workable or not.
8. If your installation fail, re-install the new BIOS again as above procedures. Or re-install original BIOS from the back up file (type file name "bios. old" file ) as above procedures. Or call your system dealer for help.

## 3-2 AWARD SYSTEM BIOS CONFIGURATION SETUP

Following pages explain how to set up the system configuration (CMOS) under the AWARD BIOS. The SETUP program is stored in the Read-Only-Memory (ROM) on the mainboard. To do the SETUP procedure, press the <Del> key when the system is booting up. The following main menu will appear. Please select " STANDARD CMOS SETUP" to enter the next screen.

ROM PCI/ISA BIOS (2A59CA29)  
CMOS SETUP UTILITY  
AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type .....	

The section on the bottom of the main menu explains how to control this screen. The other one section displays the items highlighted in the list.

**This screen records, some basic hardware information, set the system clock and error handling. These records can be lost or corrupted if the on-board battery is fail or weak.**

ROM PCI/ISA BIOS (2A59CA29)  
CMOS SETUP UTILITY  
AWARD SOFTWARE, INC.

STANDARD CMOS SETUP BIOS FEATURES SETUP CHIPSET FEATURES SETUP POWER MANAGEMENT SETUP PCI CONFIGURATION SETUP LOAD BIOS DEFAULTS LOAD SETUP DEFAULTS	PASSWORD SETTING IDE HDD AUTO DETECTION SAVE & EXIT SETUP EXIT WITHOUT SAVING
ESC: Quit F10: Save & Exit Setup	:Select Item (Shift) F2 : Change Color
Time, Date, Hard Disk Type .....	

ROM PCI/ISA BIOS (2A59CA29)  
STANDARD CMOS SETUP  
AWARD SOFTWARE, INC.

Date (mm:dd:yy) : Wed, Dec 6 1995

Time(hh:mm:ss) : 3 : 37 : 7

HARD DISKS	TYPE	SIZE	CYLS	HEAD	PRECOMP	LANDZ	SECTOR	MODE
------------	------	------	------	------	---------	-------	--------	------

Primary Master	: AUTO	0	0	0	0	0	0	AUTO
----------------	--------	---	---	---	---	---	---	------

Primary Slave	: AUTO	0	0	0	0	0	0	AUTO
---------------	--------	---	---	---	---	---	---	------

Secondary Master	: AUTO	0	0	0	0	0	0	AUTO
------------------	--------	---	---	---	---	---	---	------

Secondary Slave	: AUTO	0	0	0	0	0	0	AUTO
-----------------	--------	---	---	---	---	---	---	------

Drive A : 1.44M, 3.5 in.

Drive B : None

Base Memory : 640K

Extended memory : 64512K

Other Memory : 384K

Video : EGA/VGA	-----
Halt On: All Errors	Total Memory : 65536K
ESC : Quit	:Select Item PU/PD/+/- : Modify
F1 : Help	(Shift) F2 : Change Color

**This screen is a list of system configuration options. Some of them are defaults required by the mainboard's design, others will be depended on the features of your system.**

ROM PCI/ISA BIOS (2A59CA29)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type .....	

ROM PCI/ISA BIOS(2A59CA29)  
 BIOS FEATURES SETUP  
 AWARD SOFTWARE , INC.

Virus Warning	: Disabled	Video BIOS Shadow	: Enabled
CPU Internal Cache	: Enabled	C8000-CBFFF Shadow	: Disabled
External Cache	: Enabled	CC000-CFFFF Shadow	: Disabled
Quick Power On Self Test	: Disabled	D0000-D3FFF Shadow	: Disabled
Boot Sequence	: A, C	D4000-D7FFF Shadow	: Disabled
Swap Floppy Drive	: Disabled	D8000-DBFFF Shadow	: Disabled
Boot Up Floppy Seek	: Enabled	DC000-DFFFF Shadow	: Disabled
Boot Up NumLock Status	: On		
Boot Up System Speed	: High		
Gate A20 Option	: Fast		
Memory Parity Check	: Enabled	Esc : Quit	:Select Item
Typematic Rate Setting	: Disabled	F1 : Help	PU/PD/+/- : Modify
Typematic Rate(Chars/Sec)	: 6	F5 : Old Values (SHIFT)	F2 : Color
Typematic Delay(Msec)	: 250	F6 : Load BIOS Defaults	
Security Option	: Setup	F7 : Load Setup Defaults	
PCI/VGA Palette Snoop	: Disabled		

**This screen controls the setting for the chipset on the mainboard.**

ROM PCI/ISA BIOS (2A59CA29)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type .....	

ROM PCI/ISA BIOS (2A59CA29)  
 CHIPSET FEATURES SETUP  
 AWARD SOFTWARE, INC.

DRAM RAS# Precharge Time	: 4	PCI Concurrency	: Enabled
DRAM R/W Leadoff Timing	: 8/6*	PCI Streaming	: Enabled
DRAM RAS To CAS Delay	: 3*	PCI Bursting	: Enabled
DRAM Read Burst Timing	: x2222*	Onboard FDC Control	: Enable
DRAM Write Burst Timing	: x3333*	Onboard Serial Port 1	: COM1/3F8
System BIOS Cacheable	: Disabled	Onboard Serial Port 2	: COM2/2F8
Video BIOS Cacheable	: Disabled	Onboard Parallel Port	: 378H
8-bit I/O Recovery Time	: 1*	Onboard Parallel Mode	: ECP
16-bit I/O Recovery Time	: 1*	ECP Mode Use DMA	: 3
Memory Hole At 15M-16M	: Disabled	Parallel Port EPP Type	: EPP1.9
IDE HDD Block Mode	: Enabled	Serial Port 1 MIDI	: Disabled
IDE Primary Master PIO	: Auto	Serial Port 2 MIDI	: Disabled
IDE Primary Slave PIO	: Auto		
IDE Secondary Master PIO	: Auto	Esc: Quit	:Select Item
IDE Secondary Slave PIO	: Auto	F1 : Help	PU/PD/+/-:Modify
On-Chip Primary PCI IDE	: Enabled	F5 : Old Values	(Shift)F2 :Color
On-Chip Secondary PCI IDE	: Enabled	F6 :Load BIOS Defaults	
PCI Slot IDE 2nd Channel	: Enabled	F7 :Load Setup Defaults	

**This screen controls the 'green' features of this mainboard.**

ROM PCI/ISA BIOS (2A59CA29)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit :Select Item	
F10: Save & Exit Setup (Shift) F2 : Change Color	
Time, Date, Hard Disk Type .....	

ROM PCI/ISA BIOS (2A59CA29)  
 POWER MANAGEMENT SETUP  
 AWARD SOFTWARE, INC.

Power Management : Disabled	IRQ3 (COM 2) : OFF
PM Control by APM : Yes	IRQ4 (COM 1) : OFF
Video Off Method : V/H SYNC	IRQ5 (LPT 2) : OFF
+Blank	IRQ6 (Floppy Disk) : OFF
Doze Mode : Disabled	IRQ7 (LPT 1) : OFF
Standby Mode : Disabled	IRQ8 (RTC Alarm) : OFF
Suspend Mode : Disabled	IRQ9 (IRQ2 Redir) : OFF
HDD Power Down : Disabled	IRQ10 (Reserved) : OFF
IRQ3 (Wake-Up Event) : On	IRQ11 (Reserved) : OFF
IRQ4 (Wake-Up Event) : On	IRQ12 (PS/2 Mouse) : OFF
IRQ8 (Wake-Up Event) : On	IRQ13 (Coprocessor) : OFF
IRQ12(Wake-Up Event) : On	IRQ14 (Hard Disk) : OFF
	IRQ15 (Reserved)
Power Down Activities	Esc: Quit :Select Item
COM Ports Accessed : On	F1 : Help PU/PD/+/- : Modify
LPT Ports Accessed : On	F5 : Old Values (Shift) F2: Color
Drive Ports Accessed : On	F6 : Load BIOS Defaults
	F7 : Load Setup Defaults

**This screen configures the PCI Bus slots.**

ROM PCI/ISA BIOS (2A59CA29)  
CMOS SETUP UTILITY  
AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit :Select Item	
F10: Save & Exit Setup (Shift) F2 : Change Color	
Time, Date, Hard Disk Type .....	

ROM PCI/ISA BIOS (2A59CA29)  
PCI CONFIGURATION SETUP  
AWARD SOFTWARE, INC.

PnP BIOS Auto-Config	: Disabled
Slot 1 Using INT#	: AUTO
Slot 2 Using INT#	: AUTO
Slot 3 Using INT#	: AUTO
Slot 4 Using INT#	: AUTO
1st Available IRQ	: 10
2nd Available IRQ	: 11
3rd Available IRQ	: 9
4th Available IRQ	: 12
PCI IRQ Activated By	: Level

PCI IDE IRQ Map To	: PCI-AUTO	Esc: Quit	:Select Item
Primary IDE INT#	: A	F1 : Help	PU/PD/+/- : Modify
Secondary IDE INT#	: B	F5 : Old Values	(Shift) F2: Color
		F6 : Load BIOS Defaults	
		F7 : Load Setup Defaults	

The last step is 'save and exit'. If you select this item and press 'Y', then these records will be saved in the CMOS memory on the mainboard. It will be checked every time when you turn your computer on.

ROM PCI/ISA BIOS(2A59CA29)  
 CMOS SETUP UTILITY  
 AWARD SOFTWARE, INC.

STANDARD CMOS SETUP	PASSWORD SETTING
BIOS FEATURES SETUP	IDE HDD AUTO DETECTION
CHIPSET FEATURES SETUP	SAVE & EXIT SETUP
POWER MANAGEMENT SETUP	EXIT WITHOUT SAVING
PCI CONFIGURATION SETUP	
LOAD BIOS DEFAULTS	
LOAD SETUP DEFAULTS	
ESC: Quit	:Select Item
F10: Save & Exit Setup	(Shift) F2 : Change Color
Time, Date, Hard Disk Type .....	



## ; ° Control Key Description ; °

UP ARROW	↑	Move to previous item
DOWN ARROW	↓	Move to next item
LEFT ARROW	←	Move to the item in the left hand
RIGHT ARROW	→	Move to the item in the right hand
Esc KEY	Esc	Main Menu : Quit and not save changes Setup menu : Exit current page and return to main menu
PgUp KEY		Increase the numeric value or make changes
PgDn KEY		Decrease the numeric value or make changes
F1 KEY	Help	General help
F2 KEY	↑ Shift ; ↑+F2	Change color from total 16 colors
F5 KEY	Old Value	Restore the pervious CMOS value from CMOS
F6 KEY	Load BIOS default	Load the default CMOS value from BIOS default table
F7 KEY	Load setup default	Load Setup default
F10 KEY	Save & Exit Setup	Save all the CMOS changes and Exit setup, only for Main Menu

# APPENDIX A

## TECHNICAL SUPPORT REQUEST FORM

If the mainboard doesn't function properly, please complete the following information and return it to your system dealer. If the further information is needed, please attach this separating sheets.

Model No : ATC-1535 Date of Purchase : \_\_\_\_\_

Serial No : \_\_\_\_\_

### HARDWARE :

	BRAND	MODEL	SPEED	Q'TY
CPU				
Co-processor				
SIM Module				
Asyn.Cache				
TAG SRAM				
Sync. Cache				

Chipset Brand : \_\_\_\_\_ Model : \_\_\_\_\_  
 Cache Memory : \_\_\_\_\_ KB SIMM : \_\_\_\_\_ MB ( \_\_ EDO Support)  
 Bus Interface : PCI x \_\_\_\_\_, ISA x \_\_\_\_\_  
 Hard Disk Interface Controller : \_\_\_\_\_ IDE, \_\_\_\_\_ SCSI  
 Hard Disk Brand : \_\_\_\_\_, Model : \_\_\_\_\_, Capacity : \_\_\_\_\_  
 Display Controller Brand : \_\_\_\_\_, Model : \_\_\_\_\_  
 Controller Chip Brand : \_\_\_\_\_, Model : \_\_\_\_\_

### SOFTWARE:

SYSTEM BIOS: \_\_\_\_\_ <A>AMI, <W>AWARD  
 Version \_\_\_\_\_ Date Code \_\_\_\_\_  
 Keyboard BIOS: Brand \_\_\_\_\_

### Other Add-on Cards Information:

Add-on Card	Bus Interface	Model	Remark


**Error Description :** \_\_\_\_\_